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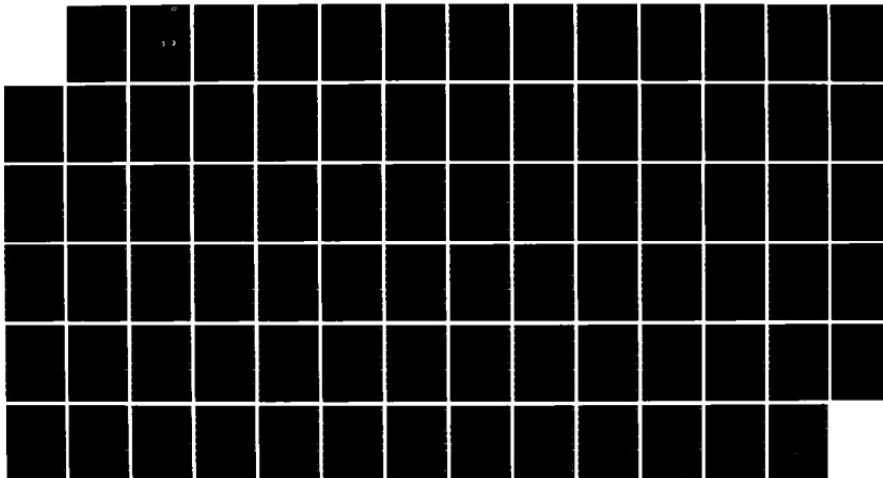
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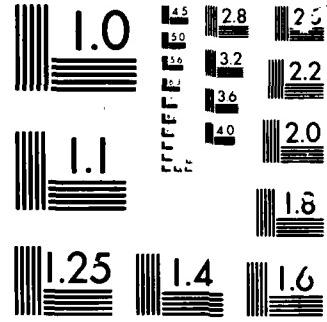
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**US Army Corps  
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Cold Regions Research &  
Engineering Laboratory

# Special Report 86-5

March 1986

## *Comparison of winter climatic data for three New Hampshire sites*

John W. Govoni and Sandra J. Smith

AD-A167 427

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report contains climatological measurements for the winters of 1980-81 and 1981-82 made at three sites in New Hampshire situated at elevations of 155 m, 870 m and 1910 m above sea level. Parameters measured included wind speed and direction, precipitation, temperature, humidity, and duration of icing events. Comparison of the data provides the opportunity to examine the influence of elevation on atmospheric icing occurrence and intensity. In New Hampshire, icing appears to occur only at elevations above about 900 m.		

## PREFACE

This report was prepared by John W. Govoni, Physical Science Technician, Snow and Ice Branch, Research Division, and Sandra J. Smith, Editorial Assistant, Technical Information Branch, Technical Services Division. The work was performed as part of DA Project 4A762730AT42, Design, Construction and Operations Technology for Cold Regions, Task Area SS, Work Unit 002, Mechanical Design for Icing Environments.

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## CONTENTS

	<u>Page</u>
Abstract .....	1
Preface .....	ii
Introduction .....	1
Discussion .....	2
Wind speed and direction .....	2
Precipitation .....	4
Temperature and humidity .....	4
Icing .....	5
Conclusions and recommendations .....	5
Literature cited .....	6
Appendix A: Meteorological parameters measured .....	7
Appendix B: Monthly meteorological summaries and wind roses .....	11
Appendix C: Accumulated precipitation amounts .....	65
Appendix D: Cumulative freezing-degree-days and maximum and minimum air temperatures .....	69
Appendix E: Mount Washington icing events .....	72

## ILLUSTRATIONS

### Figure

1. Average wind speed versus elevation for the three sites ..... 3

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## COMPARISON OF WINTER CLIMATIC DATA FOR THREE NEW HAMPSHIRE SITES

John W. Govoni and Sandra J. Smith

### INTRODUCTION

Over the past several years there has been growing interest in icing conditions at high elevations, especially on high-power transmission lines in the Northeast. Extensive damage has been caused by ice buildup on power lines and towers, and occasionally complete collapse of transmission systems has occurred. There is thus a need for basic meteorological data that can be related to icing rates and conditions in icing-susceptible regions. This information is necessary for the design and location of proposed power line systems (Howe 1982-1983), wind power generation facilities, ski area lift facilities and microwave relay towers.

During the months of October 1980 through April 1982, we measured wind speed and direction, temperature, precipitation and humidity while monitoring icing events near the summit of Loon Mountain, New Hampshire. The same data were collected at the Cold Regions Research and Engineering Laboratory (Hanover, N.H.) and at the summit of Mt. Washington, N.H. In this report we compare the meteorological and icing parameters at these three locations.

Loon Mountain is located in Lincoln ( $44^{\circ} 07' \text{ N}$ ,  $71^{\circ} 30' \text{ W}$ ), and has an elevation of 934 m. The data collection site is located at the top of the Loon Mountain Ski Area at an elevation of about 870 m. The site's exposure is roughly  $270^{\circ}$  from southwest to southeast. The site is a fairly level knoll with vegetation consisting mainly of spruce, balsam, and yellow birch, all under 8 m high. The various sensors were located so that there was minimal interference from buildings or trees.

The site was chosen for several reasons. Its elevation is approximately the maximum reached by existing or proposed power line corridors. Information obtained from earlier studies\* shows that 2800 to 3000 ft (850 to 900 m) is the minimum elevation for atmospheric icing on mountains in the Northeast. In addition, this site is accessible by a gondola lift that

\*C. Ryerson, University of Vermont, personal communication, 1985.

operates year-round, and the heated ski patrol building on the summit provides an ideal location for instruments that must be kept warm.

The second location, the Cold Regions Research and Engineering Laboratory (CRREL), is located in Hanover ( $43^{\circ} 43' N$ ,  $72^{\circ} 16' W$ ). The instrumentation site is in an open field (elevation 155 m) west of the main building and adjacent to several test cells constructed in 1972 to study the effects of wastewater on a variety of vegetation and soil types. The meteorological site was established to collect climatic information for the study, and since that time has been in continuous operation.

The third site is on the summit of Mount Washington ( $44^{\circ} 16' N$ ,  $71^{\circ} 18' W$ ), about 1,910 m above sea level. The Mt. Washington Observatory, located at the summit, is a first-order National Weather Service Observation Station. The observatory is in the clouds more than half the time and has prevailing winds from the west and west-northwest. The most severe storm winds, however, are usually from the southeast, and quite often exceed 160 km/hr.

Minimum temperatures at the summit are not as extreme as those in the surrounding lowlands. However, the observatory experiences very rapid temperature changes, and below-freezing temperatures are recorded every month of the year. This combination of year-round low temperatures and the presence of liquid water droplets in the air makes it an ideal outdoor laboratory for studying atmospheric icing on structures (Govoni and Ackley 1983, 1984).

The CRREL and Mt. Washington sites were chosen because their elevations are about 700 m below and 1100 m above the elevation of Loon. This data set thus provides an opportunity to examine the influence of elevation on icing intensity and other meteorological parameters. In addition, the Mt. Washington site is used for basic studies relating icing rate to in-cloud parameters and for testing a variety of icing sensors.

An explanation of the parameters measured and equipment used at all three sites is given in Appendix A.

## DISCUSSION

### Wind Speed and Direction

To rapidly establish the prevailing wind speed and direction, wind rose diagrams for each month were plotted using a computer program. Each wind rose (App. B, Fig. B1-B6) shows the distribution of wind direction and

magnitude. The vectors give the directional percentage of wind occurrence (length of the thin line) and wind speed (length of the thick line) as described by Bates (1981). Appendix B (Table B1) also contains the monthly wind data for the three sites. Daily average wind speed and direction, peak gust and direction, and the time (LST) when the gusts occurred are included in this table. Figure 1 is a log-log plot of the average wind speed vs elevation for the three sites. A reasonable power law relationship appears to exist between wind speed and elevation.

The GMQ11 wind set at Loon was mounted on a metal pole approximately 3.5 m above the roof of a 10-m-high wooden observation tower. This provided a 360° unobstructed view for obtaining wind speed and direction. During the 14 months of study at Loon, the lowest average monthly wind speed (1.8 m/s) was recorded in October 1981 and the highest (8.9 m/s) in February

1981. Wind gusts of 20.1 m/s or greater occurred during every month. The highest observed wind speed occurred on 25 October 1981 when a peak gust of 43.4 m/s was measured. The wind direction during these events was predominantly north-northwest. Wind data for Loon are given in Table B1 and Figures B1 and B2.

Wind speed and direction at CRREL were also recorded by a GMQ11 wind set mounted roughly 4 m above the ground on an instrument shelter. Wind roses were also drawn for the CRREL data for the same time period as for the Loon data (see App. B, Fig. B3 and B4). The lowest average monthly wind speed at CRREL (1.0 m/s) was recorded in October 1981 and the highest (2.5 m/s) was recorded in April 1982. During the same 14-month period, peak hourly gusts of 6 m/s occurred every month. The predominant wind direction, as on Loon Mountain, was from the north-northwest.

Data collection was different on Mt. Washington than on the other two sites, mainly because of strong winds and continuous icing conditions.

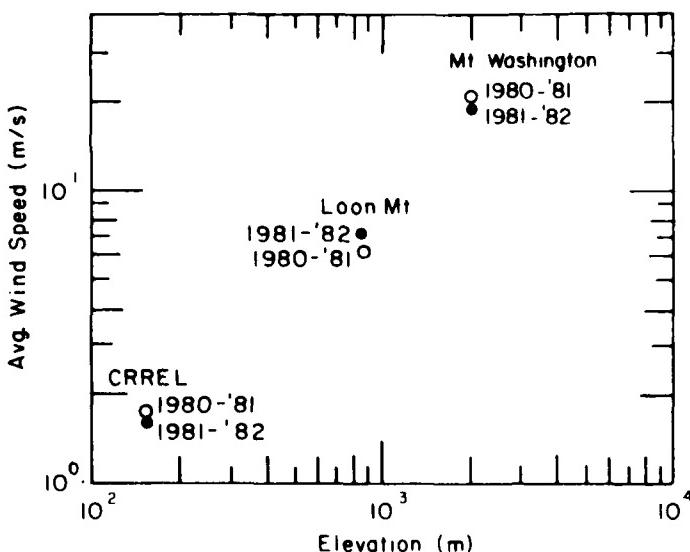


Figure 1. Average wind speed versus elevation for the three sites.

Wind speed was measured by a heated, vaned pitot-static tube. The direction of the wind, however, was obtained from a separate vaned indicator. Both instruments were mounted on metal poles 1.5 m above the observatory's 10-m tower. To collect continuous data at the observatory, sensors must be heated and have as few moving parts as possible, because of the extreme icing conditions on the summit. The lowest average monthly wind speed for the 14-month period was recorded in October 1981. The highest peak gust occurred on 4 December 1981. Peak gusts of 18 m/s or greater occurred almost every month. Prevailing winds were from the west and west-northwest.

#### Precipitation

A 20.3-cm weighing-recording rain gage was used both at Loon Mountain and the CRREL site for measuring precipitation. At the Mt. Washington site a 20.3-cm-diameter, 91.4-cm-long non-recording rain gage was used. Daily precipitation amounts are included in Table B1. At the Loon Mountain and Mt. Washington sites all the precipitation is in water or water equivalent units. At CRREL, however, in addition to water equivalent data, actual snowfall amounts were measured and recorded as snow depth on the ground. Appendix C shows accumulated precipitation amounts in water equivalent for the three sites.

The precipitation totals for the three sites were as follows:

<u>Site</u>	<u>Precipitation (mm)</u>
Loon Mt., 1980-81	645
Loon Mt., 1981-82	439.6*
CRREL, 1980-81	390.9
CRREL, 1981-82	445.5
Mt. Washington, 1980-81	1,382.9
Mt. Washington, 1981-82	1,214.5

#### Temperature and humidity

Different instruments were used at the three sites for measuring air temperature and humidity. At Loon Mountain, a recording hygrothermograph set in a Thomson shelter 1.3 m above the ground made a continuous record of the air temperature and humidity. Air temperature and humidity were measured by two different methods at CRREL. The first method used a General Eastern 650/611A (lithium chloride) probe located 10 m above the ground surface. The second method used a General Eastern 1200 (Frost Mirrors)

\*Approximately 27 days of data missing.

probe located 2 m above the ground surface. On Mt. Washington, air temperature was obtained with a Bourdon tube that recorded on a Foxboro thermograph. Humidity readings were recorded every three hours with a sling psychrometer. A summary of the monthly temperatures for the three sites from October 1980 to April 1981 and October 1981 to April 1982 is given in Table B1.

The average temperatures for the three sites were as follows:

<u>Site</u>	<u>Temperature (°C)</u>
Loon Mt., 1980-81	-4.0
Loon Mt., 1981-82	-5.0
CRREL, 1980-81	-1.0
CRREL, 1981-82	-1.8
Mt. Washington, 1980-81	-10.5
Mt. Washington, 1981-82	-10.6

Appendix D contains plots of cumulative freezing-degree-day records and running daily maximum and minimum air temperatures at the three sites for the two winter seasons. It is clear that the fastest growth in the freezing-degree-day curves corresponds to the lowest temperature in the air temperature curves.

#### Icing

One icing event during the winter of 1980-81 and two events during the winter of 1981-82 were observed at the Loon Mountain site by the ski patrol personnel. Because of problems associated with visiting a semi-remote site, actual physical measurements were not made by CRREL personnel. However, on 1 October 1984 a Rosemount ice detector was installed at the Loon site to monitor and measure icing rates and intensities.

During the 1980-81 and 1981-82 winter months no detectable icing was recorded at the CRREL weather station.

The summit of Mount Washington is known for the heavy icing it receives during the winter months. Appendix E is a list of icing events that occurred during the winters of 1980-81 and 1981-82. The type of ice was not recorded for each icing event, but 90% of them produced rime icing.

#### CONCLUSIONS AND RECOMMENDATIONS

We are currently establishing another site, on the summit of Cannon Mountain, New Hampshire, which has an elevation of 1231 m above sea level.

We expect Cannon to have more icing events than Loon, but fewer than Mt. Washington, based solely upon the elevation differences. Preliminary investigation seems to indicate that light to moderate icing in the White Mountains starts at or around the 900 m elevation mark.

There are significant problems associated with collecting meteorological data from unmanned remote mountaintop sites. Equipment malfunctions and power losses are two major causes for loss of data. With conventional equipment, these problems are not usually detected until the weekly visit to the site is made.

For future studies, state-of-the-art data loggers and sensors will be used to collect data at our remote sites. Coupled with telephone modems and back-up tape recorders, this equipment should minimize loss of data. By way of direct telephone line from the data logger at the site to the CRREL computer, we can receive the data each day in a variety of formats. Also, the sensors at the site can be interrogated at any time from any computer terminal at CRREL. Sensors and other electronic equipment that are not functioning properly can be rapidly detected and repaired with minimal loss of data. In addition, if our ice detectors indicate significant icing, immediate on-site visits can be made to measure the amount and type of ice.

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APPENDIX A: METEOROLOGICAL PARAMETERS MEASURED

Table A1. Explanation of meteorological parameters measured at Loon Mountain.

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Precipitation	PRECIP	Amount of liquid precipitation, evaluated for an hourly total.	Weighing type 8-in. recording rain gage	Millimeters (to nearest 0.01 mm)
Dry bulb temperature	DB TEMP	Ambient temperature, evaluated on the hour.	Recording hygrothermograph	Degrees C (to nearest 0.5 degree)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated on the hour.	Recording hygrothermograph	Percent
Wind speed	WS	Wind speed and direction measured approximately 20 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	GMQ11 wind set	Degrees with reference to true north (to nearest 10 degrees)
Wind direction	WD		GMQ11 wind set	Miles per hour (mph)

Table A2. Explanation of meteorological parameters measured at CRREL.

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Station pressure	STA PRESS	Atmospheric pressure at site, evaluated as max and min for the day.	Recording microbarograph	Millibars (to nearest 0.1 mb)
Precipitation	PRECIP	Amount of liquid precipitation, evaluated for a daily total.	Weighing type 8-in. recording rain gage	Millimeters (to nearest 0.1 mm)
Dry bulb temperature	DB TEMP	Ambient temperature, evaluated as daily max, min and mean.	General Eastern 650/611 & 1200 m/s	Degrees C (to nearest 0.1 degree)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated as daily max, min and mean.	General Eastern 650/611 & 120 m/s	Percent
∞	SNOW DEP	Amount of snow accumulation, measured when site was visited.	Snow measuring stake	Centimeters (to nearest 0.5 cm)
Wind speed	WS	Wind speed and direction measured 4 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	GMQ11 wind set WS101 Hot crosswire 200	Miles per hour (mph) Meters per second (m/s) Meters per second (m/s)
Wind direction	WD		GMQ11 wind set	In degrees with reference to true north (to nearest 10 degrees) except peak wind when WS101 and 200 were used.
Vertical Eppley radiation	VERT	Total incoming solar radiation falling on a horizontal plane, evaluated for an hourly average.	Eppley pyrheliometer	W hr/m <sup>2</sup>
Inverted Eppley radiation	INV	Reflected incoming solar radiation falling on a horizontal plane, evaluated for an hourly average	Eppley pyrheliometer	W hr/m <sup>2</sup>

**Table A3. Explanation of meteorological parameters measured at Mt. Washington.**

Parameter	Abbreviation	Explanation	Sensor	Unit of measure
Precipitation	PRECIP	Amount of liquid precipitation, evaluated at 3-hr intervals.	8-inch-diameter, 3-foot-long nonrecording rain gage	Inches (to nearest 0.01 in.)
Temperature	TEMP	Ambient temperature, evaluated on the hour.	Foxboro thermograph	Degrees F ( $\pm 2$ degrees)
Relative humidity	RH	Relative humidity of ambient temperature, evaluated every 3 hr.	Sling psychrometer	Percent
Snow depth	SNOW DEP	Amount of snow accumulation.	Estimated	Inches (to nearest inch)
Wind speed	WS	Wind speed and direction measured approximately 10 meters above surface, evaluated for an hourly average, peak gusts with time and direction on a daily and monthly basis, and prevailing wind direction for the day.	Heated vane pitot static tube	Miles per hour (mph)
Wind direction	WD		Separate heated wind vane	Degrees with reference to true north ( $\pm 5$ degrees)

**APPENDIX B: MONTHLY METEOROLOGICAL SUMMARIES AND WIND ROSES**

Table B1. Monthly meteorological summaries.

**OCTOBER 1980**

Date	Temperature (°C)	Rel. Hum. %	Dew Point (°C)	Wind (mph) <sup>†</sup>	Precipitation (mm)
	Max Min Mean	Max Min Mean	Mean	Dir. Peak	Amount
1	14.5	8.0 12.5	98	77 100	10.5
2	11.0	6.5 8.5	92	100	8.5
3	11.5	6.5 9.0	95	100	9.0
4	8.0	3.5 5.5	100	100	5.5
5	9.0	3.5 6.0	100	73	4.0
6	10.0	2.0 6.0	100	57	3.5
7	8.0	2.0 5.0	100	71	2.5
8	11.0	3.0 7.0	100	71	5.0
9	7.0	-3.5 2.0	92	62	-1.5
10	10.0	-3.5 3.0	82	35	-5.6
11	8.0	-3.5 6.0	100	49	5.5
12	6.5	0.0 3.0	100	100	8.5
13	0.0	-3.0 -1.5	100	84	3.0
14	-0.5	-4.0 -2.0	100	68	-2.5
15	6.5	-3.5 1.5	90	46	-4.5
16	7.5	1.0 4.0	100	60	-4.0
17	13.0	5.5 9.0	100	100	10.5
18	14.0	9.5 11.5	100	100	10.5
19	9.5	3.0 6.0	100	64	9.5
20	5.0	-3.5 1.0	100	71	9.5
21	5.0	-4.0 1.5	100	100	9.5
22	2.0	-4.5 -1.5	100	60	11.5
23	-2.0	-5.0 -4.0	98	77	16.0
24	-6.0	-4.0 1.0	100	55	16.0
25	8.0	-2.0 3.0	100	82	16.0
26	7.0	-2.5 2.5	1	1	16.0
27	-1.0	-6.5 -4.0	100	87	16.0
28	-1.5	-7.5 -4.0	90	61	16.0
29	-2.0	-5.5 -4.0	93	74	16.0
30	3.0	-4.0 -0.5	86	56	16.0
31	0.0	-4.5 -2.5	100	62	16.0
<b>Monthly</b>					
Ave =	14.5	2.8		1.0	123.5
Max =		12.5		290	Total
Min =		-4.5		97.0	
		-7.5		0.50	
				194.7	

<sup>†</sup> - Conversion mph to m/s, mph x .447  
I\* - Incomplete data

## NOVEMBER 1980

Table B1 (cont'd.).

LOON

Date	Temperature (°C)			Rel. Hum. %			Dew Point (°C)		Wind (mph)		Precipitation (mm)	
	Max	Min	Mean	Max	Min	Mean	Mean	Mean	Dir.	Dir.	Time	Amount
1	-4.5	-9.0	-7.0	100	64	82	-10.5	13.5	300	34.0	0307	
2	I*	1	1	1	1	1	1	1	14.0	320	35.0	1918
3	1	1	1	1	1	1	1	1	7.0	340	19.0	0007
4	4.0	-2.0	2.0	100	78	64	-6.0	**	**	**	**	**
5	3.0	-8.0	-2.5	100	1	1	1	1	**	**	**	**
6	-2.5	-9.5	-6.0	98	1	1	1	1	**	**	**	**
7	2.0	-3.0	-0.5	100	84	98	-1.0	**	**	**	**	4.50
8	3.0	-9.0	-3.0	100	60	84	-5.5	**	**	**	**	5.70
9	1.5	-9.0	-4.0	100	20	68	-9.0	**	**	**	**	3.50
10	1.0	-8.0	-3.5	100	91	96	-4.0	**	**	**	**	5.30
11	-7.0	-8.0	-7.5	100	100	100	-7.5	**	**	**	**	
12	-6.0	-7.5	-7.0	100	100	100	-7.0	**	**	**	**	
13	-1.5	-6.0	-4.0	100	46	90	-5.5	**	**	**	**	
14	0.5	-5.5	-2.5	100	76	92	-3.5	**	**	**	**	
15	-3.5	-8.5	-6.0	96	61	76	-9.5	**	**	**	**	
16	-8.0	-11.5	-10.0	93	70	86	-12.0	**	**	**	**	
17	-1.0	-11.5	-6.5	100	37	65	-11.5	**	**	**	**	
18	-3.0	-7.5	-5.0	100	94	99	-5.0	**	**	**	**	
19	-7.0	-10.0	-8.5	100	70	92	-9.5	**	**	**	**	
20	-0.5	-6.5	-3.5	100	69	86	-5.5	**	**	**	**	
21	-1.5	-4.0	-3.0	100	62	81	-6.1	**	**	**	**	
22	-2.0	-4.5	-3.0	100	40	87	-5.0	**	**	**	**	
23	6.0	-2.0	2.0	42	13	24	-16.5	**	**	**	**	
24	4.0	0.0	2.0	100	20	73	-2.5	**	**	**	**	
25	4.0	-6.0	-1.0	100	100	100	-1.0	**	**	**	**	
26	5.0	-10.0	-7.5	100	38	74	-11.5	**	**	**	**	
27	3.0	-10.5	-4.0	80	12	33	-18.0	**	**	**	**	
28	3.0	-4.5	-1.0	100	23	82	-3.5	**	**	**	**	
29	3.0	-4.0	-0.5	100	78	86	-2.5	**	**	**	**	
30	-3.0	-5.5	-4.0	98	76	88	-5.5	**	**	**	**	
31												
Monthly												
Ave =	6.0			-4.0	2.0	1.00				81		-7.0
Max =											12	
Min =												

<sup>†</sup> - Conversion mph to m/s, mph x .447  
I\* - Incomplete data  
\*\* - Data missing due to damaged wind sensor

## DECEMBER 1980

Table B1 (cont'd.).

LOON

Date	Temperature (°C)	Rel. Hum.	Dew Point (°C)	Wind (mph) <sup>†</sup>	Precipitation (mm)
	Max Min	% Mean	Mean	Dir. Peak	Amount
1	2.0	-3.5	-1.0	96	78
2	4.5	-0.5	2.0	96	72
3	2.0	-15.5	-7.0	100	90
4	-12.5	-18.0	-15.5	100	97
5	-8.5	-17.0	-13.0	90	58
6	0.0	-11.5	-6.0	100	66
7	4.5	-2.5	1.0	97	73
8	5.5	0.0	3.0	100	74
9	0.0	-8.0	-4.0	100	80
10	-3.5	-10.0	-7.0	100	81
11	-10.0	-21.5	-16.0	95	54
12	-10.0	-16.0	-13.0	98	69
13	-3.0	-17.0	-10.0	100	80
14	-11.5	-23.5	-17.5	92	82
15	-12.5	-25.5	-19.0	100	70
16	-3.5	-12.5	-8.0	100	98
17	-7.0	-17.5	-12.5	100	26
18	-6.5	-14.5	-10.5	100	34
19	-6.0	-24.0	-15.0	100	70
20	-18.5	-24.0	-21.5	76	63
21	-14.0	-21.5	-17.5	82	66
22	-9.0	-19.0	-14.0	100	61
23	-5.0	-12.0	-8.5	100	90
24	-3.0	-20.0	-11.5	100	68
25	-20.0	-34.5	-27.0	87	70
26	-12.0	-27.0	-19.5	89	58
27	-7.0	-14.5	-11.0	88	61
28	0.0	-12.0	-6.0	100	57
29	4.0	0.0	2.0	100	100
30	2.0	-18.0	-8.0	100	71
31	-8.0	-20.0	-14.0	80	45
<b>Monthly</b>				82	
Ave =	5.5		-10.5		
Max =		3.0			
Min =		-34.5	-27.0		22

<sup>†</sup> - Conversion mph to m/s, mph x .447

\*\* - Data missing due to damaged wind sensor

**Total**

28.9

0517

## JANUARY 1981

Table B1 (cont'd).

## LOON

Date	Temperature (°C)			Rel. Hum. %			Dew Point (°C)		Wind (mph) <sup>+</sup>			Precipitation (mm)
	Max	Min	Mean	Max	Min	Mean	Mean	Mean	Dir.	Peak	Dir.	Amount
1	-6.5	-10.5	-8.5	99	44	76	-12.0	8.5	210	19.0	220	1134
2	-4.5	-10.5	-14.5	98	70	88	-16.0	9.0	340	36.0	010	2137
3	-18.5	-27.5	-24.5	79	54	64	-29.5	10.0	350	33.0	330	0204
4	-23.0	-29.0	-26.0	80	65	70	-30.0	14.0	330	55.0	360	2244
5	-12.0	-26.0	-19.0	80	55	73	-22.5	15.5	360	49.0	010	1127
6	-9.0	-17.0	-13.0	96	48	69	-17.5	10.5	210	18.0	I*	2218
7	-4.9	-18.5	-11.5	100	70	94	-12.0	11.5	300	30.0	310	2240
8	-18.5	-24.0	-21.0	85	69	77	-24.0	13.5	350	39.0	340	0841
9	-14.5	-22.0	-18.5	78	58	71	-22.5	8.0	230	25.0	360	0201
10	-11.0	-25.0	-18.0	88	61	69	-20.5	9.5	030	40.0	020	2335
11	-21.0	-27.0	-24.0	80	66	76	-27.0	15.5	320	46.0	010	0028
12	1	1	1	1	1	1	1	1	360	24.0	010	0434
13	-12.5	-19.5	-16.0	68	33	47	-25.0	12.0	030	26.0	060	0949
14	-10.0	-19.5	-15.0	62	35	50	-23.0	10.0	330	25.0	360	0445
15	-5.0	-14.5	-10.0	78	52	64	-15.5	10.0	310	16.0	200	0717
16	-5.5	-11.5	-8.5	100	57	76	-12.0	9.0	230	16.0	230	1304
17	-10.0	-20.0	-15.0	100	80	92	-16.0	11.0	030	31.0	010	1855
18	-9.5	-20.0	-15.0	100	74	87	-16.5	19.0	010	65.0	360	2255
19	-3.0	-9.0	-6.0	100	62	83	-8.5	23.0	360	60.0	360	0602
20	-4.0	-16.5	-10.0	99	44	66	-15.0	17.5	020	60.0	010	0211
21	-5.5	-14.5	-10.0	48	20	37	-22.0	6.0	310	23.0	210	2257
22	-2.7	-8.0	-5.0	100	26	64	-11.0	14.0	220	33.0	210	0321
23	-5.5	-9.5	-7.5	100	74	90	-9.0	16.0	020	36.0	020	1107
24	-5.0	-11.5	-8.0	100	65	86	-10.0	13.0	360	28.0	010	2231
25	-3.5	-13.0	-8.0	98	44	70	-12.5	14.0	230	39.0	020	0353
26	2.0	-5.0	-1.5	88	56	68	-6.5	17.5	240	34.0	240	2342
27	1.0	-4.0	-1.5	86	74	87	-3.5	17.0	270	34.0	270	1754
28	-4.0	-11.5	-7.5	100	44	64	-13.0	11.0	320	29.0	300	0247
29	-8.5	-15.5	-12.0	96	43	73	-16.0	14.0	030	45.0	020	2022
30	-15.0	-19.5	-17.5	94	70	82	-20.0	19.0	330	46.0	010	0820
31	-2.5	-18.0	-10.0	78	14	38	-22.0	13.5	360	34.0	040	0853
<b>Monthly</b>												
Ave =				11.0								
Max =	2.0			-1.5								
Min =		-29.0	-26.0		100							

<sup>1</sup> - Conversion mph to m/s, mph x .447  
I\* - Incomplete data

14

14

Total

12.20

2255

360

65.0

## LOON

Table B1 (cont'd).

FEBRUARY 1981

Date	Temperature (°C)			Rel. Hum.	% Mean	Dew Point (°C)	Speed	Wind (mph)†	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean		Peak	Dir.		
1	-0.5	-4.0	-2.0	100	14	44	-13.0	21.0	230	51.0	220
2	1*	1	1	1	1	1	1	29.0	220	84.0	210
3	6.0	-13.0	-3.5	100	68	86	-5.5	14.0	320	34.0	300
4	-11.0	-19.5	-15.0	82	58	72	-9.0	9.0	260	270	1328
5	-13.5	-19.0	-16.0	83	58	75	-19.5	11.0	330	29.0	310
6	-12.0	-18.0	-15.0	72	36	58	-21.5	17.0	240	30.0	220
7	5.0	-12.0	-8.5	97	62	83	-11.0	15.0	260	36.0	220
8	-2.0	-7.0	-4.5	100	52	78	-8.0	11.0	150	29.0	110
9	-2.0	-12.0	-7.0	100	80	94	-8.0	19.0	320	50.0	33.0
10	-4.0	-12.5	-8.0	90	53	74	-12.0	16.0	220	30.0	230
11	9.5	-6.5	-4.5	100	76	99	-1.5	28.0	200	90.0	200
12	2.0	-18.5	-8.5	100	40	61	-15.0	17.0	350	1*	1
13	-7.5	-19.0	-13.5	64	34	51	-21.5	13.0	200	25.0	230
14	-3.0	-13.0	-5.0	87	36	51	-13.5	15.0	260	40.0	010
15	-3.0	-11.5	-7.0	88	39	64	-18.5	16.0	180	27.0	1948
16	5.5	-5.5	0.0	75	40	52	-8.5	19.0	220	42.0	250
17	7.5	-5.5	0.0	100	54	82	2.0	20.0	260	48.0	250
18	10.0	3.0	6.5	100	50	80	3.5	15.0	270	25.0	230
19	9.0	4.5	7.0	100	74	88	5.0	14.0	200	31.0	210
20	7.0	5.5	6.0	100	100	100	6.0	20.0	160	57.0	140
21	7.5	4.0	5.5	100	100	100	5.5	17.0	140	55.0	130
22	11.0	-1.0	5.0	100	42	86	3.0	10.0	140	22.0	180
23	11.0	-1.0	5.0	100	16	33	-10.0	13.0	180	36.0	150
24	1	1	1	1	1	1	1	19.0	130	49.0	150
25	1	1	1	1	1	1	1	20.0	080	46.0	095
26	1	1	1	1	1	1	1	20.0	070	41.0	070
27	-1.0	-4.5	-2.5	100	56	84	-5.0	17.0	060	40.0	050
28								16.0	190	38.0	210
29											
30											
31											

Monthly  
Ave =  
Max =  
Min =

-3.0  
-19.5  
-16.0

11.0  
14

Total

5.00

57.00

1822  
210  
1439  
300  
0215  
270  
1328  
310  
1512  
1504  
220  
2124  
1132  
0258  
1217  
.40

1733

1804

1852

230

1948

2353

0026

250

2123

230

2333

2037

28.00

7.00

0031

0128

1023

150

0654

0955

2351

4.70

0470

0648

3.60

1430

215.80

210

90.0

200

1733

1822

210

1439

300

0215

270

1328

310

1512

1504

220

2124

1132

0258

1217

.40

1804

1852

230

1948

2353

0026

250

2123

230

2333

2037

28.00

7.00

0031

0128

1023

150

0654

0955

2351

4.70

0470

0648

3.60

1430

215.80

210

90.0

200

1733

1822

210

1439

300

0215

270

1328

310

1512

1504

220

2124

1132

0258

1217

.40

1804

1852

230

1948

2353

0026

250

2123

230

2333

2037

28.00

7.00

0031

0128

1023

150

0654

0955

2351

4.70

0470

0648

3.60

1430

215.80

210

1439

300

0215

270

1328

310

1512

1504

220

2124

1132

0258

1217

.40

1804

1852

230

1948

2353

0026

250

2123

230

2333

2037

28.00

7.00

0031

0128

1023

150

0654

0955

2351

4.70

0470

0648

3.60

1430

215.80

210

1439

300

0215

270

1328

310

1512

1504

220

2124

1132

0258

1217

.40

1804

1852

230

1948

2353

0026

250

2123

230

2333

2037

28.00

7.00

0031

0128

1023

150

0654

0955

2351

4.70

0470

0648

3.60

1430

215.80

210

1439

300

0215

270

1328

310

1512

1504

220

2124

1132

0258

## MARCH 1981

## LOON

Table B1 (cont'd.).

Date	Temperature (°C)			Rel. Hum. %			Dew Point (°C)			Wind (mph)†			Precipitation (mm)
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Dir.	Peak	Dir.	Time
1	-2.0	-3.5	-2.5	100	70	86	-3.5	21.0	94	350	48.0	360	1017
2	1.0	-5.5	-2.5	100	70	88	-4.5	15.0	98	300	29.0	250	1604
3	-5.5	-13.5	-9.5	94	76	83	-12.0	21.0	83	360	46.0	010	1103
4	-4.5	-13.5	-9.0	82	61	73	-13.0	15.0	80	330	48.0	020	0032
5	-4.5	-10.5	-5.0	77	56	66	-11.5	14.0	60	30.0	350	005	
6	-1.5	-5.4	-4.0	100	67	89	-5.5	14.0	050	28.0	060	0254	1.00
7	-0.5	-3.0	-2.0	100	42	97	-2.5	13.0	060	24.0	060	0715	2.80
8	-2.0	-4.5	-3.0	92	84	88	-4.5	12.0	020	29.0	050	2304	
9	1*	1	1	1	1	1	1	12.0	020	30.0	360	2336	
10	-2.0	-6.0	-4.0	96	79	90	-5.5	17.0	340	33.0	350	1819	.30
11	-2.0	-5.5	-4.0	100	78	87	-6.0	9.0	330	26.0	350	2204	1.20
12	-2.0	-7.0	-4.5	88	66	80	-7.5	13.0	290	25.0	200	2254	
13	-0.5	-7.5	-4.0	100	66	85	-6.0	18.0	250	43.0	270	0218	.50
14	0.0	-11.0	-5.5	100	68	77	-9.0	24.0	300	73.0	340	1950	
15	-1.0	-13.5	-7.0	93	68	79	-10.0	22.0	240	61.0	330	0001	
16	1.0	-5.0	-2.0	100	59	73	-6.0	18.0	260	39.0	270	1157	
17	-6.0	-14.0	-10.0	78	45	57	-17.0	22.0	290	52.0	290	1427	
18	-6.5	-14.5	-10.5	78	43	64	-17.0	24.0	270	57.0	270	0811	
19	-3.0	-13.5	-8.0	74	41	58	-15.0	12.0	310	30.0	290	0121	
20	-5.0	-8.5	-7.0	100	54	78	-10.0	7.0	020	26.0	200	0821	5.00
21	-1.5	-5.5	-3.5	99	62	86	-5.5	13.0	340	32.0	330	1123	1.50
22	0.5	-5.0	-2.5	69	46	57	-10.0	14.0	190	21.0	260	1728	
23	3.0	-5.0	-1.0	64	40	55	-9.0	13.0	300	22.0	360	0036	
24	1.0	-1.5	0.0	87	54	68	-5.0	14.0	350	26.0	330	0653	
25	1.5	-3.5	-1.0	90	60	76	-5.0	14.0	170	25.0	150	1203	
26	4.5	-3.5	0.5	92	32	51	-8.5	13.0	1	25.0	1	2237	
27	0.5	-4.0	-1.5	100	50	80	-4.5	17.0	300	51.0	290	1850	
28	3.0	-5.0	-1.0	70	35	46	-11.0	20.0	280	32.0	140	2034	
29	13.0	2.5	8.0	94	36	53	-1.0	21.0	180	54.0	180	0857	
30	13.0	8.0	10.5	84	46	68	5.0	21.0	130	40.0	1414		
31	8.0	1.0	4.5	100	90	98	4.5	16.0	300	52.0	340	0957	2.50
<b>Monthly</b>										<b>Total</b>			30.80
Ave =	13.0	-3.0	10.5	100	75		-7.0	16.0	350	73.0	340	1950	
Max =	13.0	-14.5	-10.5										32
Min =													

† - Conversion mph to m/s, mph x .447

I\* - Incomplete data

## APRIL 1981

Table B1 (cont'd).

## LOON

Date	Temperature (°C)	Rel. Hum.	Dew Point (°C)	Speed	Wind (mph) +	Dir.	Time
	Max Min	% Mean	Mean		Peak	Dir.	
1	5.5 0.5	3.0	100	72	93	- 2.0	0856
2	2.0 - 0.5	0.5	100	68	87	- 1.5	0834
3	17.0 - 1.0	8.0	70	32	46	- 3.0	0017
4	13.5 9.5	12.0	92	36	56	- 3.5	0727
5	10.0 3.0	6.5	100	84	97	- 6.0	19.90
6	3.0 - 4.5	- 0.5	93	52	77	- 4.0	1005
7	1 1	1	1	1	1	- 1.0	270
8	1 1	1	1	1	1	- 1.0	2238
9	12.5 - 0.5	6.0	100	64	84	- 3.5	0429
10	11.0 - 2.0	4.5	100	52	88	- 5.0	3.70
11	6.0 - 2.0	2.0	100	52	88	- 0.0	1600
12	6.0 - 5.0	0.5	92	38	56	- 7.5	6.00
13	9.0 - 4.5	2.0	70	35	47	- 8.0	1713
14	2.0 - 8.0	- 3.0	100	46	87	- 4.5	12.40
15	- 3.5 - 12.0	- 7.5	87	44	64	- 13.0	0200
16	16 3.0	- 12.0	- 4.5	95	58	- 10.0	2152
17	8.0 - 1.0	4.5	100	46	74	- 1.0	0734
18	9.0 - 3.0	3.0	100	71	97	- 2.5	21.60
19	9.0 - 6.0	1.5	98	33	53	- 7.0	0051
20	3.5 - 7.5	- 2.0	100	48	82	- 5.0	2252
21	- 5.5 - 12.0	- 9.0	99	61	75	- 12.5	69.0
22	3.0 - 12.0	- 4.5	64	40	51	- 14.0	1755
23	10.0 - 4.0	3.0	100	30	58	- 4.5	0932
24	4.0 1.5	3.0	100	100	100	- 7.0	0932
25	1.5 0.0	0.5	100	100	100	- 5.0	2057
26	12.5 0.5	6.5	100	48	74	- 16.0	1948
27	15.5 2.0	8.5	96	41	66	- 2.5	123.20
28	15.5 4.0	9.5	87	42	61	- 3.0	Total
29	13.0 4.0	8.5	100	83	96	- 6.0	16.50
30	14.0 2.5	8.0	99	42	67	- 2.5	2252
31							

Monthly  
Ave = 17.0 12.0 12.0 - 9.0  
Max = 17.0 - 12.0 - 9.0  
Min = - 12.0 - 9.0

+ - Conversion mph to m/s, mph x .447

I\* - Incomplete data

\*\* - Wind dir missing due to recorder malfunction

## OCTOBER 1981

Table B1 (cont'd.).

LOON

Date	Temperature (°C)			Dew Point (°C)	Speed	Dir.	Wind (mph) <sup>†</sup>	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean							
1	6.5	- 2.0	2.0	92	52	72	- 2.5	3.5	180	12.4
2	11.0	1.5	6.5	100	55	87	- 4.5	2.5	180	6.2
3	3.0	1.5	2.0	100	98	99	2.0	4.5	320	12.4
4	6.5	1.0	3.5	100	64	87	1.5	4.5	270	13.4
5	9.0	2.0	5.5	98	53	77	1.5	3.5	270	8.2
6	7.0	2.0	4.5	100	40	82	1.5	2.5	180	8.2
7	4.0	0.0	2.0	99	82	93	1.0	4.5	240	14.4
8	1.5	0.0	1.0	99	98	98	0.5	6.0	360	18.4
9	2.0	- 1.0	0.5	100	88	93	- 0.5	4.6	360	12.4
10	4.5	- 1.5	1.5	94	55	77	- 2.0	3.0	360	8.8
11	4.5	- 2.5	1.0	92	56	75	- 3.0	2.3	360	7.2
12	7.0	- 2.5	2.5	86	44	66	- 3.0	2.0	080	6.2
13	11.0	1.0	6.0	66	34	49	- 4.0	C	C	5.7
14	13.0	3.0	8.0	62	29	45	- 3.0	3.0	170	6.7
15	13.0	4.0	8.5	84	31	53	- 0.5	4.0	180	9.8
16	8.0	1.0	4.5	100	56	83	- 2.0	3.5	360	14.9
17	8.0	- 1.0	3.5	100	44	66	- 2.5	4.0	030	11.3
18	5.0	- 2.0	3.5	100	56	85	- 1.0	6.5	170	15.4
19	3.5	- 3.5	0.0	100	63	82	- 2.5	5.0	210	13.4
20	3.5	- 4.5	0.5	94	52	66	- 6.0	4.5	180	13.9
21	8.0	3.0	5.5	77	46	61	- 1.5	6.0	180	15.9
22	8.5	3.5	6.0	95	53	70	1.0	6.0	180	15.9
23	7.5	- 2.0	3.0	96	95	95	2.5	6.0	180	15.4
24	0.0	- 4.0	- 2.0	96	55	76	- 5.5	2.0	350	12.4
25	0.0	- 4.0	- 2.0	96	64	81	- 5.0	2.8	150	8.2
26	1*	1	1	1	1	1	1	2.5	180	10.8
27	1	1	1	1	1	1	1	4.0	170	10.3
28	9.0	0.5	5.0	99	92	97	4.5	5.4	020	16.4
29	5.0	- 0.5	2.5	100	70	90	1.0	2.5	050	8.2
30	8.0	- 1.0	3.5	92	36	61	- 3.5	1.5	120	6.2
31	9.5	0.5	5.0	99	33	60	- 2.0	5.5	180	8.2
Monthly				77	- 1.0	4.0	180	18.4	330	0435
Ave =				3.0						
Max =	13.0			8.5						
Min =				- 4.5	- 2.0					

Conversion mph to m/s, mph x .447  
 1\* - Incomplete data

## LOON

Table B1 (cont'd.).

NOVEMBER 1981

Date	Temperature (°C)	Rel. Hum.	%
	Max Mean	Min	Mean
1	9.0 2.0	5.5	83
2	13.5 2.0	8.0	56
3	4.0 -1.0	1.5	99
4	6.0 -2.0	2.0	51
5	9.0 -1.0	4.0	76
6	5.5 0.5	3.0	35
7	0.5 -5.5	-2.5	54
8	3.0 -5.5	-1.5	70
9	5.5 -5.5	-2.0	82
10	-0.5 -9.0	-5.0	100
11	-2.0 -7.0	-4.5	72
12	-4.5 -8.5	-6.5	90
13	6.0 -8.0	-1.0	96
14	8.5 -0.5	4.0	33
15	7.0 4.0	5.5	69
16	7.5 4.0	6.0	99
17	5.5 1.0	3.5	97
18	1.0 -3.5	-1.5	92
19	-3.0 -4.0	-3.5	95
20	-1.5 -4.5	-3.0	96
21	-1.5 -5.0	-3.5	98
22	-5.0 -7.0	-6.5	92
23	-6.0 -9.5	-8.0	90
24	-3.0 -10.0	-6.5	87
25	-5.5 -10.5	-8.0	90
26	-1.0 -11.0	-6.0	57
27	-1.5 -5.0	-3.5	83
28	-3.0 -8.5	-6.0	82
29	-7.0 -9.5	-8.5	80
30	-6.5 -10.5	-8.5	78
31			71

## Monthly

Ave = 13.5  
 Max = -11.0  
 Min = -11.0

\* Conversion factor from mph to m/s, mph x .447  
 \*\* 3492135003/0018

	Wind (mph) +	Dir. Peak	Dir.	Time	Precipitation (mm) Amount
	8.5	180	26	340	2132
	12.0	340	42	340	2135
	6.5	340	42	350	0018
	6.0	320	26	300	0150
	3.0	180	18	170	2000
	2.0	180	26	200	1248
	8.0	350	30	350	1652
	9.0	330	29	300	0400
	6.5	240	26	340	1810
	5.5	190	20	050	0328
	5.5	10.0	25	340	2150
	12.0	360	30	020	0245
	17.0	7.5	050	16	1225
	4.5	070	24	050	2316
	0.0	13.0	060	32	0921
	5.5	7.5	050	25	0138
	3.0	5.5	180	16	1105
	2.0	7.0	330	24	1540
	4.5	6.5	340	28	330
	4.0	10.0	080	.36	0630
	4.0	7.5	280	31	1425
	4.5	8.5	310	28	2115
	5.5	5.5	330	14	2158
	6.5	6.5	050	24	050
	12.0	4.5	050	21	2346
	7.0	6.5	180	30	1706
	10.0	9.5	260	32	330
	12.0	12.0	340	38	2152
	13.0	11.0	360	36	1100
					0100
					2.0
					79.0

## LOON

Table B1 (cont'd).

DECEMBER 1981

Date	Temperature (°C)	Rel. Hum. %	Dew Point (°C)	Speed	Wind (mph)†	Dir.	Precipitation (mm) Amount
	Max Mean	Min	Year		Peak	Dir.	
1	-3.0 -10.0	42 6.5	75	-10.0	28.0	050	0205
2	-2.0 -3.0	78 0.5	99	-0.5	270	14.0	1322
3	-1.0 -4.0	100 2.5	99	-2.5	360	24.0	1905
4	-1.0 -6.0	100 3.5	83	-6.0	240	24.0	0325
5	-2.5 -6.0	100 4.5	83	-7.0	040	36.0	0032
6	-5.5 -9.5	100 7.5	99	-7.5	350	360	2128
7	-4.0 -9.5	100 7.0	88	-8.5	330	38.0	0242
8	-1.5 -10.0	100 5.5	52	-7.5	4.0	040	14.0
9	-7.0 -11.0	100 9.0	87	-9.0	10.0	330	040
10	-6.0 -11.0	100 8.5	77	-9.0	330	32.0	1945
11	-3.0 -8.0	100 5.5	100	-6.5	8.0	27.0	2112
12	-4.0 -11.0	100 7.5	94	-6.5	030	030	0412
13	-2.5 -12.0	100 7.5	95	-8.0	6.0	20.0	1715
14	-3.5 -10.0	100 7.0	44	-11.0	5.5	050	0340
15	-0.5 -6.5	100 3.5	100	-7.5	3.5	330	0227
16	-2.5 -9.0	100 5.0	86	-4.0	5.0	060	24.0
17	-5.0 -11.0	100 8.5	74	-7.0	12.0	060	0247
18	-9.0 -12.0	100 10.5	99	-11.5	4.5	24.0	11.0
19	-11.0 -16.5	100 14.0	94	-15.5	5.0	060	15.0
20	-13.0 -17.0	100 15.0	92	-17.0	12.0	360	0238
21	1*	1	1	1	4.5	270	0238
22	1	1	100	98	11.5	060	0238
23	-2.5 -6.0	100 4.5	98	-4.5	7.0	360	0238
24	-2.0 -6.0	90 4.0	60	-7.5	8.5	360	0238
25	-5.5 -8.0	70 6.0	90	-10.5	7.0	240	0238
26	-5.0 -7.0	60 6.0	89	-9.0	4.5	090	0238
27	-6.0 -8.0	100 7.0	84	-7.5	11.5	080	0238
28	-2.5 -6.5	100 4.5	88	-4.5	3.0	180	0238
29	-4.0 -11.0	100 7.5	97	-8.0	8.5	330	0238
30	-8.5 -13.0	90 11.0	62	-14.0	9.0	330	0238
31	-4.5 -9.5	92 7.0	65	-9.5	3.5	22.0	0238
<b>Monthly</b>				<b>I</b>	<b>2323</b>	<b>I</b>	<b>103.5</b>
Ave =	2.0	-7.0					
Max =	-17.0	-0.5					
Min =	-17.0	-15.0					

†Conversion mph to m/s, mph x .447

I\* - Incomplete data

LOON

Table B1 (cont'd).

JANUARY 1982

\* - Conversion mph to m/s, mph x .447  
\*\* - Incomplete data

\*\* = Precip total based on 22 days of incomplete data

- 1 - *Encyclopedia of American Law*

## LOON

Table B1 (cont'd.).

FEBRUARY 1982

Date	Temperature (°C)			Rel. Hum. %			Dew Point (°C)	Speed	Wind (mph) <sup>†</sup>	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Mean		Peak			
1	-3.5	-15.0	-9.5	82	66	76	-13.0	9.5	080	36	1857	1
2	-2.0	-14.0	-8.5	100	28	81	-11.0	4.0.	050	16	0148	31.0
3	-0.5	-8.0	-4.5	100	100	96	-4.5	I*	1	1		1
4	2.0	-13.0	-5.5	100	70	96	-6.0	4.0	180	1		
5	-8.0	-14.0	-11.0	100	51	89	-12.5	8.0	300	36	0815	
6	-7.0	-16.0	-11.5	100	100	100	-11.5	12.0	230	33	210	1135
7	-10.0	-18.5	-14.5	100	71	93	-15.5	8.0	240	22	260	0315
8	-9.5	-12.0	-11.0	100	97	100	-11.0	6.0	280	27	280	1008
9	-8.5	-12.0	-10.5	100	100	100	-10.5	5.5	180	16	180	1751
10	-8.5	-17.0	-13.0	100	97	100	-13.0	9.5	300	29	270	1652
11	-10.5	-19.0	-15.0	100	88	98	-15.5	6.5	250	21	270	2301
12	-8.0	-15.0	-11.5	100	95	100	-11.5	4.0	340	16	330	0830
13	-9.0	-15.5	-12.5	100	100	100	-12.5	4.0	340	26	330	2303
14	-10.5	-16.0	-13.5	100	100	100	-13.5	7.0	310	27	350	0236
15	0.0	-13.5	-7.0	100	100	100	-7.0	8.5	180	27	180	0752
16	0.0	-12.5	-6.5	100	86	97	-7.0	9.0	350	36	340	0703
17	-5.0	-14.5	-10.0	100	1	86	-12.0	5.0	040	24	030	0020
18	-3.5	-15.0	-9.5	97	62	76	-13.0	4.0	160	19	080	0258
19	-5.0	-13.0	-9.5	98	68	94	-10.5	8.0	180	21	180	0710
20	0.0	-7.5	-4.0	98	97	97	-4.5	7.5	040	24	040	0625
21	1.5	-7.0	-3.0	98	93	98	-3.5	4.5	050	14	040	1921
22	-6.0	-10.0	-8.0	100	98	98	-8.5	5.5	040	17	070	2343
23	-4.0	-10.5	-7.5	100	58	91	-8.5	7.5	050	44	350	2240
24	-9.0	-18.5	-14.0	98	34	67	-19.0	9.5	340	37	020	0730
25	-15.5	-22.5	-19.0	85	52	66	-24.0	14.5	330	49	330	2248
26	-12.0	-22.5	-17.5	93	48	65	-22.5	12.0	350	45	350	0159
27	-7.0	-15.0	-11.0	100	50	81	-13.5	8.0	310	30	330	1127
28	-9.0	-21.5	-15.5	100	51	70	-20.0	8.0	350	26	330	1537
29												
30												
31												
Monthly							90	-12.0	7.5	340	49	330
Ave =	2.0											2248
Max =	-22.5											
Min =	-19.0											

\* - Conversion mph to m/s, mph x .447  
 I\* - Incomplete data  
 \*\* - precip total based on ?? days of data

Total

## MARCH 1982

## LOON

Table B1 (cont'd) .

Date	Temperature (°C)	Rel. Hum. %	Dew Point (°C)	Wind (mph) <sup>†</sup>	Dir.	Time	Precipitation (mm)
	Max Mn Mean	Max Min	Mean	Peak	Dir.		Amount
1	-10.5	-21.0	-16.0	100	42	65	-21.0
2	-7.5	-15.0	-11.0	100	64	87	-13.5
3	-10.5	-19.0	-15.0	100	54	72	-19.0
4	-8.5	-19.0	-14.0	100	38	64	-19.0
5	-3.0	-10.5	-7.0	100	68	90	-8.5
6	-3.0	-13.0	-8.0	100	54	78	-11.0
7	-2.0	-7.0	-4.5	100	100	100	-4.5
8	-6.5	-17.0	-12.0	100	76	90	-13.5
9	-11.0	-17.5	-14.5	100	77	91	-15.5
10	-4.0	-12.5	-8.5	100	76	94	-9.5
11	0.0	-8.0	-4.0	100	100	100	-4.0
12	1.0	-0.5	0.5	100	94	100	0.5
13	-0.5	-3.0	-2.0	100	68	96	-2.5
14	-2.5	-8.0	-5.5	100	54	84	-8.0
15	-3.0	-11.0	-7.0	72	41	56	-14.5
16	5.0	-11.0	-3.0	100	38	53	-11.0
17	0.5	-5.5	-2.5	100	70	93	-3.5
18	7.0	-6.0	0.5	100	38	63	-5.5
19	3.0	-4.5	-1.0	100	68	87	-3.0
20	4.5	-6.5	-1.0	100	53	82	-3.5
21	0.0	-5.5	-3.0	100	76	94	-4.0
22	-3.0	-7.0	-5.0	100	100	100	-5.0
23	0.5	-7.0	-4.0	100	58	80	-7.0
24	4.0	-8.0	-2.0	100	51	70	-6.5
25	8.0	-4.0	-2.0	100	58	84	-0.5
26	1.5	-10.0	-4.5	100	100	100	-4.5
27	-10.0	-20.0	-15.0	100	69	92	-16.0
28	-9.5	-21.5	-15.5	78	40	56	-22.5
29	2.0	-12.5	-5.5	93	39	59	-12.0
30	8.5	-5.0	2.0	64	24	45	-8.5
31	3.5	-1.5	1.0	100	55	98	0.5
<b>Monthly</b>							
Ave =			-6.0				
Max =	8.5		2.0				
Mn =		-21.5	-16.0	100	81	-9.0	
					180	7.3	
						39.2	290
							1701

<sup>†</sup> - Conversion mph to m/s, mph x .447

I\* - Incomplete data

\*\* - Precip monthly total based on 21 days of data

Total

2158

38.0

0106

2356

330

1316

020

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

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21.3

180

2309

260

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130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

090

21.3

180

2309

260

30.2

130

0932

0436

1423

300

20.1

1701

290

34.7

320

0118

2221

170

25.7

360

1101

1519

APRIL 1982

Table B1 (cont'd).

LOON

† - Conversion mph to m/s,  $\frac{\text{m}}{\text{s}}$  x .447

\* - Incomplete data  
- All missing data due to elimination

- All missing data due to equipment failure at site

## OCTOBER 1980

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point			Wind			Precipitation.		
	Max	Min	Avg	Max	Min	Mean	Max	Min	Mean	Avg. Speed	Dir	Max	Avg. Temp (°C)	(mm)	Snow Depth
1	24.0	8.5	16.0	100	50	82	13.5	13.0	13.5	1.0	240	3.0			
2	21.5	7.5	14.5	100	75	90	13.0	13.0	13.0	1.5	270	5.0			
3	17.5	12.0	14.5	100	71	93	13.5	13.5	13.5	1.0	090	2.0			
4	17.0	6.5	12.0	100	61	83	9.0	9.0	9.0	1.5	270	3.5			
5	17.0	6.0	11.5	100	45	80	8.0	8.0	8.0	0.5	VAR	1.5			
6	15.0	4.0	9.5	100	56	86	7.0	7.0	7.0	0.5	VAR	2.0			
7	15.0	4.0	9.5	100	54	87	7.5	7.5	7.5	0.5	VAR	1.0			
8	19.0	3.5	11.0	100	54	76	7.0	7.0	7.0	1.5	250	3.5			
9	12.0	-1.5	5.0	100	45	64	0.5	0.5	0.5	1.5	030	4.5			
10	15.0	-2.5	6.0	100	40	77	2.5	2.5	2.5	0.5	VAR	1.5			
11	11.5	4.5	8.0	100	94	99	8.0	8.0	8.0	C	C	1.0	7.20		
12	13.0	5.0	9.0	100	68	95	8.5	8.5	8.5	1.0	260	2.0			
13	7.0	1.5	4.0	81	51	65	-2.0	-2.0	-2.0	1.5	360	4.0			
14	8.0	-3.0	2.5	100	46	66	-3.0	-3.0	-3.0	2.5	010	5.5			
15	12.0	-3.5	4.0	100	45	92	3.0	3.0	3.0	C	C	1.5			
16	11.5	-0.5	5.5	100	69	89	4.0	4.0	4.0	C	C	1.0	1.10		
17	18.0	7.0	12.5	100	74	90	11.0	11.0	11.0	1.5	180	4.0			
18	18.5	9.5	13.5	100	100	100	13.5	13.5	13.5	1.0	270	2.5	7.00		
19	16.0	6.5	11.0	100	45	71	6.0	6.0	6.0	1.5	270	3.5			
20	11.0	-2.0	4.5	100	48	76	0.5	0.5	0.5	1.5	270	4.0			
21	9.0	-2.0	3.5	100	70	89	2.0	2.0	2.0	0.5	VAR	2.5			
22	8.5	-2.0	3.0	100	44	65	-3.0	-3.0	-3.0	1.5	020	4.0			
23	6.0	-1.0	2.5	94	54	67	-3.0	-3.0	-3.0	2.0	020	5.0			
24	12.0	-4.0	4.0	100	48	52	-5.0	-5.0	-5.0	1.0	VAR	2.0			
25	12.0	-2.0	5.0	100	81	95	4.0	4.0	4.0	2.5	090	6.0			
26	13.5	5.5	9.5	100	62	77	5.5	5.5	5.5	3.5	270	6.0			
27	7.0	2.0	4.5	85	56	71	-2.0	-2.0	-2.0	1.5	270	3.5			
28	5.0	2.0	3.5	100	86	91	0.5	0.5	0.5	1.5	130	3.5			
29	8.5	-2.5	3.0	100	50	71	-2.0	-2.0	-2.0	1.0	360	3.0			
30	8.0	-3.0	2.5	100	56	81	-1.5	-1.5	-1.5	1.0	VAR	2.5			
31	11.5	<u>0.0</u>	<u>6.0</u>	<u>99</u>	<u>54</u>	<u>79</u>	<u>8.0</u>	<u>8.0</u>	<u>8.0</u>	<u>1.5</u>	<u>270</u>	<u>4.0</u>			
Avg	12.9	2.1	-7.5	100	40	81	4.3	4.3	4.3	1.2	VAR	6.0			
Monthly Max	= 24°C														
Monthly Min	= -4°C														
Peak Gust	= 17 NPS on 26 Oct														
(Total)															

## NOVEMBER 1980

Table B1 (cont'd.).

CRREL

Date	Temperature ( $^{\circ}\text{C}$ )		Rel. Hum. (%)		Mean Dew Point		Wind Avg. Speed	Dir	Max Hourly	Precipitation Amt (mm)	Snow Depth (cm)
	Max	Min	Avg	Max	Min	Mean					
1	6.5	1.5	4.0	100	56	76	0.0		1.5	285	4.0
2	3.5	-4.5	-0.5	92	54	65	-6.0		2.0	360	6.0
3	4.5	-8.0	-2.0	100	60	81	-4.0	M	M		
4	13.0	5.0	9.0	90	70	75	5.0		2.5	240	7.0
5	10.5	-1.5	4.5	93	52	68	-1.0		2.0	360	4.5
6	5.5	-6.0	-0.5	89	56	68	-5.5		2.0	250	4.0
7	11.5	4.5	8.0	98	73	87	6.0		1.0	VAR	2.0
8	8.5	-5.0	1.5	98	45	80	-1.0		2.0	050	5.0
9	2.0	-7.0	-2.5	99	77	92	-3.5		1.0	VAR	3.0
10	5.5	-2.0	1.5	100	66	87	-4.0		2.5	030	4.5
11	0.5	-1.5	-0.5	76	65	71	-5.0		4.0	030	6.0
12	2.0	-1.5	0.5	75	66	71	-5.0		7.5	030	6.5
13	5.5	-2.0	1.5	88	53	88	-0.5		1.5	030	3.0
14	7.5	1.5	4.5	90	70	82	1.5		2.5	045	5.0
15	5.0	-3.5	0.5	86	50	66	-5.0		2.0	350	3.5
16	1.0	-5.0	-2.0	83	52	67	-7.5		2.5	015	6.0
17	0.5	-7.5	-3.5	100	56	88	-5.0		1.5	060	2.5
18	0.0	-3.0	-1.5	100	86	97	-2.0		2.5	075	5.0
19	0.5	-9.0	-4.0	99	63	77	-7.5		3.0	045	4.5
20	8.0	-8.0	0.0	100	58	88	-1.5		0.5	VAR	0.5
21	5.0	-8.5	-1.5	100	70	96	-2.0		1.0	VAR	0.5
22	4.0	-6.5	-1.0	100	67	88	-2.5		2.0	025	5.4
23	1.0	-6.5	-2.5	100	86	98	-3.0		1.0	VAR	0.5
24	3.5	-2.0	1.0	M	M	M		M	0.5	VAR	0.5
25	4.0	+1.0	2.5	M	M	M		M	2.0	360	3.5
26	5.5	-2.5	1.5	81	32	57	-6.0		3.0	035	6.0
27	1.0	-6.5	-2.5	99	34	67	-7.5		1.0	090	2.0
28	6.0	-3.0	1.5	98	64	89	0.0		1.5	240	3.0
29	4.5	-0.5	2.0	97	48	73	-2.5		2.5	250	4.0
30	5.5	-1.5	2.0	98	46	62	-4.5		1.5	280	4.5
Avg	4.7	-3.3	0.7	100	32	79	-2.8		2.1	VAR	7.0
										(Total)	73.1

Monthly Max =  $13.0^{\circ}\text{C}$ Monthly Min =  $-9.0^{\circ}\text{C}$ 

Peak Gust = 28.0 MPS on 11 Nov

## DECEMBER 1980

Table B1 (cont'd).

CRREL

Date	Temperature (°C)		Rel. Hum. %		Mean Dew Point	Wind Avg. Speed	Dir	Precipitation	
	Max	Min	Max	Min				Amt (mm)	Snow Depth
1	10.5	0.0	5.0	98	46	71		0.0	0.5
2	10.5	-2.0	4.0	99	50	60		-3.0	3.1
3	5.5	-9.0	-1.5	97	37	65		-7.5	4.0
4	-4.0	-9.5	-6.5	52	32	39		-18.5	5.0
5	-2.0	-11.5	-6.5	70	40	54		-14.5	0.15
6	-1.0	-10.0	-5.5	88	44	74		-9.5	2.5
7	4.5	-9.5	-2.5	99	36	80		-5.5	1.5
8	10.0	-1.0	4.5	99	71	92		-6.0	1.5
9	10.0	-3.0	3.5	100	84	84		1.0	2.5
10	1.0	-5.0	-2.0	99	58	80		-5.5	0.60
11	-5.0	-17.0	-11.0	100	72	91		-12.5	5.0
12	-4.0	-18.0	-11.0	100	46	68		-16.0	2.5
13	3.5	-12.0	-4.0	100	66	94		-5.0	2.0
14	-3.0	-16.5	-9.5	100	74	94		-10.5	0.60
15	-6.5	-22.0	-14.0	100	54	84		-16.0	0.5
16	-3.0	-8.0	-5.5	100	59	84		-8.0	1.0
17	-6.5	-20.5	-13.5	100	100	100		-13.5	1.5
18	-4.5	-20.0	-12	100	63	88		-13.5	0.50
19	-0.5	-22.0	-11.0	98	36	69		-15.5	4.5
20	-10.0	-27.0	-18.5	99	38	68		-23.0	0.5
21	-6.0	-29.0	-17.5	100	48	87		-19.0	0.5
22	-9.5	-23.5	-16.5	99	43	71		-20.5	1.0
23	-2.5	-13.5	-8.0	100	88	90		-9.5	0.5
24	-2.0	-15.5	-8.5	100	70	98		-9.0	2.0
25	-14.5	-31.0	-22.5	M	M	M		M	0.15
26	-15.0	-31.5	-23.0	M	M	M		M	0.070
27	-2.0	-18.5	-10.0	100	62	96		-10.5	3.0
28	-1.0	-20.0	-10.5	100	96	98		-11.0	1.0
29	2.5	-1.0	0.5	100	99	99		0.5	0.80
30	0.0	-16.0	-8.0	99	70	82		-10.5	4.0
31	4.5	-19.5	-12.0	94	46	66		-17.0	2.0
	Avg	-1.6	-14.9	-8.2	100	32	80	-10.6	2.0
									VAR
									10.0
									27.5
									4.25
									(Total)

Monthly Max = 10.0°C  
Monthly Min = -31.0°C  
Peak Gust = 35 MPS on 4 Dec

## JANUARY 1981

Table B1 (cont'd).

CRREL

Date	Temperature ( $^{\circ}\text{C}$ )		Rel. Hum. %		Mean Dew Point	Wind Dir	Max Hrly	Precipitation	
	Max	Min	Max	Min				Avg. Amt (mm)	Snow Depth
1	-9.0	-20.5	-14.5	94	47	74	-18.0	C	1.5
2	-3.0	-18.0	-10.5	96	31	67	-14.5	2.0	5.5
3	6.0*	-15.0*	-4.5*	M	M	M	-17.0*	1.5	2.5
4	-5.0*	-25.0*	-15.0*	M	M	M	-15.5*	2.0	0.45
5	-10.5	-29.5	-20.0	100	59	87	-21.5	1.0	0.90
6	-4.0	-21.5	-12.5	97	66	85	-14.5	0.5	3.0
7	-0.5	-14.5	-7.5	98	55	88	-9.0	2.0	2.5
8	-12.0	-25.0	-18.5	98	54	68	-23.0	1.5	260
9	-9.0	-27.0	-18.0	99	58	90	-19.5	C	1.5
10	-8.5	-20.5	-14.5	99	70	87	-16.0	2.0	0.45
11	-16.0	-27.0	-21.5	100	56	74	-25.0	1.5	290
12	-13.5	-31.5	-22.5	100	57	88	-24.0	0.5	3.0
13	-11.0	-32.0	-21.5	100	47	83	-23.5	0.5	VAR
14	-11.5	-29.0	-20.0	100	58	86	-22.0	0.5	VAR
15	-8.0	-22.5	-15.0	99	58	89	-16.5	1.5	0.70
16	-8.5	-21.0	-14.5	99	86	92	-15.0	1.0	0.65
17	-8.0	-23.0	-15.5	99	53	73	-19.5	2.0	0.25
18	-5.5	-27.0	-16.0	82	46	66	-21.0	C	3.0
19	5.5	-12.0	-3.0	86	42	67	-8.5	1.0	255
20	2.5	-18.5	-8.0	69	35	49	-17.0	3.0	3.5
21	-5.0	-25.0	-15.0	80	36	64	-20.5	0.5	2.5
22	2.5	-14.0	-5.5	84	37	77	-9.0	0.5	VAR
23	2.0	-7.0	-2.5	89	48	67	-8.0	1.0	4.0
24	-0.0	-13.0	-6.5	89	44	68	-11.5	1.0	0.40
25	1.5	-20.0	-9.0	85	40	68	-14.0	C	1.5
26	5.5	-7.0	-0.5	89	54	76	-4.5	1.0	270
27	5.0	-2.0	1.5	80	48	55	-6.5	2.0	260
28	1.0	-10.0	-4.5	72	30	49	-13.5	2.0	305
29	-6.5	-18.5	-12.5	84	52	66	-17.5	2.5	0.70
30	-9.0	-21.5	-15.0	86	34	57	-21.5	3.0	0.30
31	-5.0	-27.0	-16.0	88	40	67	-21.0	1.5	0.80
AVG..	-4.4	-20.2	-12.3	100	30	73	-16.4	1.3	VAR

Monthly Max =  $6^{\circ}\text{C}$   
 Monthly Min =  $32.0^{\circ}\text{C}$   
 Peak Gust = 28 MPS on 7 Jan

\* Data from another collecting source.

## FEBRUARY 1981

Table B1 (cont'd.).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point			Wind			Precipitation		
	Max	Min	Avg	Max	Min	Mean	Max	Min	Mean	Avg Speed	Dir	Max Wind	Avg	Min	Snow Depth
1	2.5	-23.0	-10.0	91	32	66	-15.0	-1.5	2.0	250	6.0	4.0			
2	11.0	-9.0	1.0	98	48	83	-1.5	3.5	260	6.5					23.3
3	-15.0	-8.5		87	40	72	-12.5	2.5	270	6.0					
4	-10.0	-18.0	-14.0	76	40	59	-20.5	2.5	270	4.0					
5	-9.0	-19.0	-14.0	81	28	59	-20.5	1.0	VAR	4.0					
6	-3.0	-19.0	-11.0	84	39	69	-15.5	1.5	250	6.5					
7	2.0	-13.0	-5.5	82	38	60	-12.0	1.0	VAR	3.5					
8	3.0	-4.0	-0.5	88	64	75	-4.5	0.5	VAR	0.5					15.2
9	-0.5	-13.0	-6.5	86	40	53	-14.5	2.5	250	5.0					16
10	1.0	-20.5	-9.5	80	44	59	-16.0	2.0	210	6.0					
11	14.5	-1.0	6.5	83	46	74	2.0	3.5	240	9.5					29.0
12	2.0	-16.0	-7.0	78	31	40	-18.5	3.0	310	9.0					1.0
13	-3.0	-18.5	-7.5	79	29	56	-15.0	1.0	VAR	3.0					
14	1.5	-15.0	-6.5	79	28	53	-14.5	0.5	VAR	3.0					
15	2.5	-9.0	-3.0	75	36	54	-11.0	1.0	255	3.5					
16	10.0	-6.5	1.5	84	50	66	-4.0	1.5	260	4.5					
17	12.0	-1.0	5.5	100	60	83	3.0	1.5	260	5.0					
18	15.5	-2.5	6.5	100	56	87	4.5	0.5	VAR	5.0					
19	12.5	-1.5	5.5	100	76	93	4.5	0.5	VAR	2.5					
20	13.5	6.5	10.0	100	82	97	9.5	2.0	170	7.0					11.3
21	11.5	7.5	9.5	100	88	96	9.0	1.0	150	3.0					
22	9.0	4.0	6.5	100	92	97	6.0	2.0	180	4.0					
23	11.0	0.0	5.0	100	64	93	4.5	1.5	200	5.5					
24	7.0	2.0	4.5	100	88	97	4.0	1.0	VAR	2.5					36.0
25	2.0	-0.5	0.5	100	93	99	0.5	0.5	VAR	6.5					12
26	2.0	0.0	1.0	100	76	93	0.0	3.0	040	5.5					4.6
27	2.0	-7.5	-2.5	99	62	76	-6.0	4.0	030	7.5					
28	1.0	-8.5	-3.5	99	72	89	-5.0	1.0	VAR	3.0					0.1
	Avg	4.2	-7.9	-1.8	100	28	75	-5.7	1.7	SSW	9.5				
															(Total) 177.6

Monthly Max = 16°C

Monthly Min = -23°C

Peak Gust = 15 MPS on 12 Feb

## MARCH 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point			Wind			Precipitation		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Dir.	Max	Dir.	Max	Min	Avg
1	4.5	-0.5	2.0	99	61	80	-1.0	5.0	1.5	360	5.0	1.5	13.0		
2	4.5	-1.5	1.5	100	58	75	-2.5	4.5	1.5	270	4.5	1.5			
3	-1.5	-11.5	-6.5	95	53	64	-12.0	3.0	0.0	3.0	5.0	1.0			
4	1.0	-14.5	-6.5	98	46	72	-10.5	350	2.5	1.0	350	2.5			
5	2.0	-14.0	-6.0	98	48	76	-9.5	0.90	3.5	1.5	0.90	3.5			
6	2.5	-9.5	-3.5	98	72	83	-6.0	1.0	0.30	3.5	1.0	0.30	0.1		
7	3.5	-1.0	1.0	98	76	94	0.0	0.60	3.5	1.0	0.60	3.5	0.4		
8	4.0	-0.5	1.5	100	76	88	-0.5	1.5	0.30	4.0	1.0	0.30			
9	4.0	-1.0	1.5	98	71	87	-0.5	0.5	1.0	VAR	1.0	0.5			
10	4.0	-2.0	1.0	98	55	73	-4.5	1.5	360	4.0	1.5	360			
11	2.5	-6.5	-2.0	98	72	90	-3.5	1.0	220	2.5	1.0	220			
12	1.5	-9.0	-3.5	98	53	72	-7.5	1.0	270	3.5	1.0	270			
13	7.5	-3.5	2.0	98	54	80	-1.0	1.5	270	5.0	1.5	270	0.5		
14	-1.0	-8.0	-4.5	72	44	55	-12.0	3.5	0.10	5.0	1.0	3.5			
15	8.5	-9.5	-0.5	95	44	71	-5.0	1.5	270	4.5	1.5	270			
16	4.0	-9.5	-2.5	98	50	67	-14.5	3.5	0.30	5.5	1.0	3.5			
17	-0.5	-11.5	-6.0	72	43	54	-14.0	3.5	0.10	5.5	1.0	3.5			
18	-1.0	-11.5	-6.0	89	41	56	-13.5	2.5	300	4.5	1.0	300			
19	0.5	-14.5	-7.0	98	46	71	-11.5	1.0	0.30	3.5	1.0	0.30			
20	1.0	-7.0	-3.0	98	56	85	-5.0	0.5	VAR	3.0	1.0	0.5			
21	5.0	-2.0	1.5	98	61	75	-2.5	1.5	0.30	5.0	1.0	0.30			
22	6.0	-4.5	0.5	100	55	76	-3.5	1.0	330	2.5	1.0	330			
23	10.5	-6.5	2.0	100	46	77	-1.5	0.5	VAR	1.5	1.0	0.5			
24	9.0	-3.0	3.0	99	58	88	-1.0	0.90	2.5	0.5	0.5	2.5	0.8		
25	8.0	-3.0	2.5	98	56	80	-0.5	0.5	VAR	2.0	1.0	270			
26	12.5	-5.0	3.5	98	40	75	-0.5	1.0	270	3.0	1.0	270			
27	7.5	-3.0	2.0	98	68	88	0.5	1.0	0.10	3.5	1.0	0.10	7.1		
28	12.5	-5.5	3.5	98	31	62	-3.0	0.5	VAR	2.0	1.0	0.5			
29	26.0	2.5	14.0	87	39	59	6.0	1.5	270	5.0	1.5	270			
30	20.0	4.0	12.0	100	60	86	9.5	1.5	240	4.5	2.5	240			
31	15.5	5.0	10.0	98	74	83	7.5	2.0	0.60	4.0	2.0	0.60			
	Avg	5.9	5.4	0.3	100	31	76	-3.9	1.4	VAR	5.5	12.1	(Total)		

Monthly Max = 26°C  
 Monthly Min = -14°C  
 Peak Gust = 17.5 MPS on 14 Mar

## APRIL 1981

Table B1 (cont'd).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind Dir.	Avg. Speed	Max Hourly	Precipitation Amt. (mm)	Snow Depth
	Max	Min	Avg	Max	Min	Mean						
1	16.5	3.8	10.0	100	62	84	7.5	2.5	200	5.0	6.6	
2	10.0	-3.0	3.5	100	60	85	1.5	2.5	010	5.5	1.5	
3	26.0	-4.5	10.5	100	41	68	5.0	2.0	250	5.0		
4	21.5	11.0	16.5	100	53	78	12.5	2.0	250	4.5		
5	14.5	8.0	11.0	100	78	98	10.5	2.0	250	3.5	6.6	
6	8.0	-3.0	2.5	100	58	71	-2.0	2.0	330	4.0		
7	15.5	-1.5	7.0	99	31	52	-2.0	2.0	330	5.5		
8	24.0	-4.5	10.0	100	38	63	3.5	1.5	240	3.5		
9	20.0	7.0	13.5	100	68	84	11.0	2.5	260	4.0	0.8	
10	18.5	-1.0	9.0	100	34	61	2.0	2.0	360	5.0		
11	14.0	1.0	17.5	100	66	87	15.5	0.5	VAR	2.5	0.5	
12	11.0	-2.0	4.5	100	46	72	0.0	2.5	070	4.5		
13	15.0	-6.0	4.0	100	36	70	-1.0	2.0	210	4.0		
14	10.0	-1.5	4.0	100	62	82	1.0	2.5	270	5.0	9.1	
15	3.0	-6.5	-1.5	76	44	60	-3.0	4.0	010	6.0		
16	16.5	-8.0	4.0	100	46	78	0.5	1.5	270	4.0		
17	12.0	-4.0	4.0	100	66	93	3.0	0.5	VAR	2.5	1.8	
18	20.5	4.5	12.5	100	58	86	10.0	2.0	020	4.5	5.8	
19	14.0	-0.5	6.5	99	34	68	1.0	2.5	020	4.5		
20	8.0	-1.5	3.0	100	54	80	0.0	2.5	020	4.5		
21	2.0	-6.5	-2.0	98	46	70	-6.5	3.5	010	5.5		
22	10.5	-7.0	1.5	96	32	62	-5.0	2.0	360	4.5		
23	10.5	-6.0	2.0	100	46	80	-1.0	0.5	VAR	2.0	7.4	
24	10.0	3.5	6.5	100	94	98	6.0	1.0	160	3.0	4.3	
25	6.5	4.5	5.5	100	86	94	4.5	1.0	360	2.5	2.5	
26	17.0	3.0	10.0	100	54	78	6.5	1.5	350	4.0		
27	18.5	-0.5	9.0	100	48	72	4.0	1.5	360	4.0		
28	19.0	2.0	10.5	100	53	82	7.5	0.5	VAR	1.5	0.3	
29	22.5	9.0	15.5	100	60	88	13.5	2.0	270	4.0	4.8	
30	18.5	13.0	7.5	100	47	78	9.0	1.5	330	3.5		
AVG	14.4	-0.1	7.2	100	31	77	3.8	1.9	N	6.0	52.0	(Total)

Monthly Max = 26°C  
 Monthly Min = -7°C  
 Peak Gust = 19 MPS on 2 Apr

## OCTOBER 1981

Table B1 (cont'd).

CRREL

Date	Temperature ( $^{\circ}$ C)			Rel. Hum. %			Mean Dew Point	Wind Avg. Speed	Dir	Max Hourly	<u>Prev. (Past 12 hr.)</u> Amt (mm)	Snow Depth
	Max	Min	Avg	Max	Min	Mean						
1	8.5	0.5	4.0	100	56	78	0.5	1.0	270	1.5	2.9	
2	15.0	5.0	10.0	100	58	79	6.5	0.5	VAR	4.0	8.1	
3	10.0	5.5	8.0	100	68	85	5.5	1.5	360	3.0	5.6	
4	15.0	3.5	9.0	100	49	75	5.0	1.0	270	2.5		
5	15.0	3.5	9.0	100	55	76	5.0	0.5	VAR	1.0		
6	10.0	3.0	6.5	100	88	93	5.5	0.5	VAR	2.0		
7	10.5	5.5	8.0	100	62	83	5.5	1.0	270	4.0	0.6	
8	10.5	5.5	8.0	100	66	86	5.5	2.0	030	4.0	0.4	
9	9.0	3.0	6.0	100	58	81	3.0	2.5	010	4.5		
10	11.0	-0.5	5.0	100	42	73	0.5	1.0	VAR	4.0		
11	10.0	-1.5	5.5	100	50	69	0.5	1.0	090	3.5		
12	13.5	-3.0	5.0	100	40	72	0.5	0.5	VAR	1.5		
13	16.5	-2.0	7.0	100	37	67	1.5	0.5	VAR	1.0		
14	20.0	0.0	10.0	100	24	66	4.0	0.5	VAR	1.0		
15	17.0	-1.0	8.0	100	40	72	3.5	C	C	1.0	0.3	
16	15.0	3.0	9.0	100	62	84	6.5	1.5	360	4.5		
17	15.0	0.0	7.5	100	49	77	3.5	2.0	360	4.5		
18	11.0	0.0	5.5	100	68	86	3.5	1.0	180	5.0		
19	11.0	2.5	7.0	100	50	76	3.0	1.5	240	3.5		
20	13.0	-1.0	6.0	100	44	71	1.0	3.0	210	4.0	0.3	
21	13.0	2.5	8.0	100	53	77	4.5	2.0	210	3.0		
22	16.0	5.5	11.0	100	61	82	8.0	0.5	VAR	3.0		
23	16.0	3.5	10.0	100	82	90	8.5	2.0	210	4.5	15.5	
24	8.0	-3.0	2.5	100	39	71	-2.0	2.0	310	4.0	2.9	
25	9.5	-4.0	3.0	100	62	83	0.5	1.0	150	4.0	0.3	
26	9.5	7.0	8.0	100	89	95	7.5	0.5	VAR	2.5	11.5	
27	12.5	8.0	10.0	100	96	98	9.5	C	C	1.0	22.4	
28	13.0	3.5	8.0	98	68	84	5.5	4.0	360	6.0	19.4	
29	6.5	-0.5	3.0	100	68	83	0.5	0.5	VAR	2.0		
30	10.0	-1.5	4.0	100	56	76	0.0	0.5	VAR	2.5		
31	11.5	-1.5	5.0	100	55	79	1.5	0.5	VAR	1.5		
AVG	12.0	1.7	7.0	100	24	80	4.0	1.0	VAR	6.0	117.6	
												(Total)

Monthly Max = 20 $^{\circ}$ CMonthly Min = -4 $^{\circ}$ C

Peak Gust = 16 MPS on 28 Oct

Table B1 (cont'd).

NOVEMBER 1981

CRREL

Date	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	12.0	0.0	6.0	100	68	84	3.5	0.5	2.5	VAR	2.5	
2	17.0	1.5	9.0	100	42	71	4.0	2.0	300	4.5		
3	10.5	-2.5	4.0	99	30	62	-2.5	2.5	330	4.5		
4	12.0	-3.0	4.5	99	32	65	-1.5	1.5	360	5.5		
5	14.5	-4.5	5.5	99	40	72	1.0	0.5	VAR	2.5		
6	10.0	3.0	6.5	100	67	84	4.0	1.0	VAR	3.5		
7	4.0	0.5	2.0	100	60	79	-1.5	3.0	340	4.5		
8	12.0	-3.0	4.5	100	20	62	-2.0	1.5	060	3.5		
9	11.0	-3.0	4.0	100	60	81	1.0	2.0	360	5.0		
10	4.5	-6.0	-1.0	100	40	71	-5.5	2.0	180	5.0		
11	8.0	0.0	4.0	100	53	75	0.0	1.5	270	4.0		
12	2.0	-7.0	-2.5	100	26	62	-8.5	2.5	360	4.5		
13	7.5	-8.5	-1.0	100	26	63	-7.0	0.5	VAR	2.0		
14	10.0	-6.0	2.0	100	38	68	-3.5	0.5	VAR	2.0		
15	8.0	-1.0	3.5	100	69	84	1.0	0.5	VAR	2.0		
16	14.0	7.0	10.5	100	71	86	8.5	0.5	VAR	2.0		
17	10.0	7.0	8.5	100	86	93	7.5	C	C	0.5		
18	7.0	2.0	4.5	98	76	87	2.5	1.0	350	3.0		
19	5.0	2.0	3.5	100	68	85	1.0	1.0	VAR	2.5		
20	3.0	2.0	2.5	100	81	90	1.0	1.0	VAR	2.5		
21	4.0	1.5	3.0	100	64	80	0.0	1.5	240	4.0		
22	3.5	-1.0	1.5	69	56	56	-6.5	2.0	270	4.5		
23	2.5	-4.0	-1.0	87	44	70	-6.0	1.5	270	3.0		
24	0.5	-7.5	-3.5	100	53	77	-7.0	1.0	360	3.0		
25	-1.0	-7.5	-4.0	100	64	80	-7.0	4.0	030	7.0		
26	0.5	-6.0	-1.5	88	60	72	-6.0	3.5	010	5.5		
27	4.0	-2.0	1.0	100	60	79	-2.0	0.5	VAR	1.5		
28	4.0	-2.5	1.0	100	53	76	-3.0	2.5	270	4.5		
29	0.0	-2.5	-1.5	96	58	76	-5.0	3.0	360	4.5		
30	0.0	-7.0	-3.5	100	54	75	-2.5	2.5	360	4.0		
Avg	6.7	-1.9	2.4	100	20	76	-1.5	1.5	VAR	7.0		

Monthly Max = 17°C  
 Monthly Min = -8°C  
 Peak Gust = 13 MPS on 2 Nov

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point			Wind			Precipitation Avg Amt (mm)	Snow Depth (cm)
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Dir.	Max Dir.			
1	12.0	0.0	6.0	100	68	84	3.5	0.5	VAR	2.5				
2	17.0	1.5	9.0	100	42	71	4.0	2.0	300	4.5				
3	10.5	-2.5	4.0	99	30	62	-2.5	2.5	330	4.5				
4	12.0	-3.0	4.5	99	32	65	-1.5	1.5	360	5.5				
5	14.5	-4.5	5.5	99	40	72	1.0	0.5	VAR	2.5				
6	10.0	3.0	6.5	100	67	84	4.0	1.0	VAR	3.5				
7	4.0	0.5	2.0	100	60	79	-1.5	3.0	340	4.5				
8	12.0	-3.0	4.5	100	20	62	-2.0	1.5	060	3.5				
9	11.0	-3.0	4.0	100	60	81	1.0	2.0	360	5.0				
10	4.5	-6.0	-1.0	100	40	71	-5.5	2.0	180	5.0				
11	8.0	0.0	4.0	100	53	75	0.0	1.5	270	4.0				
12	2.0	-7.0	-2.5	100	26	62	-8.5	2.5	360	4.5				
13	7.5	-8.5	-1.0	100	26	63	-7.0	0.5	VAR	2.0				
14	10.0	-6.0	2.0	100	38	68	-3.5	0.5	VAR	2.0				
15	8.0	-1.0	3.5	100	69	84	1.0	0.5	VAR	2.0				
16	14.0	7.0	10.5	100	71	86	8.5	0.5	VAR	2.0				
17	10.0	7.0	8.5	100	86	93	7.5	C	C	0.5				
18	7.0	2.0	4.5	98	76	87	2.5	1.0	350	3.0				
19	5.0	2.0	3.5	100	68	85	1.0	1.0	VAR	2.5				
20	3.0	2.0	2.5	100	81	90	1.0	1.0	VAR	2.5				
21	4.0	1.5	3.0	100	64	80	0.0	1.5	240	4.0				
22	3.5	-1.0	1.5	69	56	56	-6.5	2.0	270	4.5				
23	2.5	-4.0	-1.0	87	44	70	-6.0	1.5	270	3.0				
24	0.5	-7.5	-3.5	100	53	77	-7.0	1.0	360	3.0				
25	-1.0	-7.5	-4.0	100	64	80	-7.0	4.0	030	7.0				
26	0.5	-6.0	-1.5	88	60	72	-6.0	3.5	010	5.5				
27	4.0	-2.0	1.0	100	60	79	-2.0	0.5	VAR	1.5				
28	4.0	-2.5	1.0	100	53	76	-3.0	2.5	270	4.5				
29	0.0	-2.5	-1.5	96	58	76	-5.0	3.0	360	4.5				
30	0.0	-7.0	-3.5	100	54	75	-2.5	2.5	360	4.0				
Avg	6.7	-1.9	2.4	100	20	76	-1.5	1.5	VAR	7.0				

(Total)

## DECEMBER 1981

Table B1 (cont'd.).

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point			Wind			Precipitation	
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Dir	Hrly	Amnt (mm)	Snow Depth (cm)	
1	-2.0	-9.5	-5.5	100	78	89	-7.0	-2.5	1.0	200	3.0	6.0		
2	3.0	-2.0	0.5	100	66	82	-2.5	1.0	VAR	2.5	0	0		
3	1.0	-1.0	0.0	100	94	96	-1.5	0.5	VAR	2.5	0	0		
4	5.5	-4.0	1.0	100	52	75	-3.0	0.5	VAR	2.5	0	0		
5	1.0	-4.0	-1.5	99	68	82	-4.5	2.0	360	5.5	0	0		
6	-1.0	-5.0	-3.0	98	65	81	-6.0	6.0	360	7.5	0	0		
7	-1.0	-8.5	-5.0	100	71	85	-7.0	2.5	360	4.0	1.5	6.0		
8	-3.0	-9.5	-6.5	100	80	89	-8.0	1.5	030	3.5	2.3	5.5		
9	-3.0	-5.0	-4.0	100	70	83	-6.5	3.0	360	4.5	1.0	11.5		
10	-3.0	-5.5	-4.0	88	59	72	-8.5	3.5	360	5.5	0	12.0		
11	1.0	-6.0	-2.5	99	64	81	-5.5	1.5	360	3.0	0.3	12.0		
12	0.5	-3.0	-1.5	97	58	76	-5.5	2.5	360	4.5	0	12.0		
13	-2.0	-7.5	-4.5	100	62	78	-8.0	2.0	030	4.0	0	12.0		
14	-1.0	-11.0	-6.0	100	64	81	-9.0	C	C	1.0	1.9	9.0		
15	1.5	-3.0	-1.0	100	78	87	-3.0	C	C	2.0	2.1	16.0		
16	1.0	-5.0	-2.0	100	53	76	-5.5	3.0	300	4.0	10.7	33.0		
17	-1.0	-11.0	-6.0	100	41	68	-11.0	0.5	VAR	3.0	0.1	28.0		
18	-5.5	-9.0	-7.5	100	88	92	-8.5	2.0	030	3.0	3.0			
19	-6.0	-17.0	-11.5	100	53	75	-15.0	1.0	300	3.0	0			
20	-7.5	-25.0	-16.0	100	51	69	-20.5	1.0	300	3.5	0			
21	-5.0	-26.0	-15.5	99	53	70	-20.0	0.5	VAR	2.5	0	29.0		
22	1.5	-9.5	-5.5	100	67	83	-8.0	0.5	VAR	3.0	1.1	36.0		
23	2.0	-9.0	-3.5	100	70	86	-5.5	1.5	270	4.0	4.0			
24	3.5	-4.5	-0.5	100	54	73	-5.0	1.0	210	3.0	0			
25	0.5	-6.0	-3.0	99	52	76	-7.0	0.5	VAR	2.5	0			
26	-1.5	-9.5	-5.5	100	63	82	-8.0	M	M	0	0			
27	-1.5	-10.5	-6.0	100	71	87	-8.0	M	M	4.2				
28	2.0	-4.5	-3.0	100	74	95	-3.5	C	C	1.5	35.0			
29	1.0	-17.0	-8.0	100	59	94	-9.0	2.0	360	4.5	6.0	42.0		
30	-1.0	-16.5	-9.0	100	48	84	-11.0	0.5	VAR	2.0	0			
31	-4.0	-20.0	-7.0	26	58	80	-10.0	0.5	VAR	2.5	0			
Avg		- .8	- 9.2	- 5.0	100	41	82	-11.0	1.5	N	7.5	45.7	(Total)	

Monthly Max = 6°C  
 Monthly Min = -26°C  
 Peak Gust = 17 MPS on 6 Dec

## JANUARY 1982

Table B1 (cont'd) .

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean New Point	Wind Avg. Speed	Dir.	Wind Hourly	Precipitation Amt. (mm)	Snow Depth (cm)
	Max	Min	Avg	Max	Min	Mean						
1	0.0	-3.0	-1.5	100	69	93	-2.5	1.5	270	3.5	9.5	
2	-1.0	-18.0	-9.5	100	30	61	-15.5	2.5	360	4.5	0.5	
3	-5.5	-19.0	-12.0	100	53	82	-14.5	0.5	VAR	1.5	0	
4	3.5	-5.5	-1.0	100	88	94	-2.0	1.5	180	4.5	24.7	45.0
5	3.5	-13.0	-5.0	100	49	64	-11.0	4.0	270	7.0	0	39.0
6	-5.0	-16.0	-10.5	100	68	93	-11.5	C	C	1.0	0	38.0
7	-1.0	-6.5	-4.0	100	56	81	-8.5	1.5	010	3.5	0	39.0
8	-6.5	-16.5	-11.5	93	40	66	-16.5	1.5	300	4.0	0	38.0
9	-7.0	-17.5	-12.5	100	67	94	-13.5	0.5	VAR	2.0	0	38.0
10	-15.0	-23.0	-19.0	95	44	71	-23.0	1.5	270	4.5	0	38.0
11	-14.5	-23.5	-19.0	96	53	69	-23.5	2.0	210	4.0	T	38.0
12	-13.5	-28.0	-22.0	98	39	77	-25.0	1.5	010	5.0	T	43.0
13	-13.5	-25.5	-19.5	100	50	88	-21.0	1.0	040	2.0	2.2	
14	-9.0	-14.5	-12.0	100	86	96	-12.5	0.5	VAR	2.0	1.0	43.0
15	-5.5	-18.0	-12.0	91	46	77	-15.5	2.0	330	4.0	T	42.0
16	-6.5	-24.5	-15.5	100	48	91	-16.5	0.5	VAR	5.5	0	
17	-10.5	-21.0	-16.0	84	44	58	-22.5	3.5	300	6.0	0	
18	-11.5	-30.0	-21.0	100	44	77	-24.0	1.0	240	3.0	T	37.0
19	-11.0	-28.5	-20.0	100	44	78	-23.0	0.5	VAR	3.0	T	38.0
20	-2.5	-16.0	-9.5	100	48	75	-13.0	2.0	360	4.5	0.3	38.0
21	-11.5	-26.0	-19.0	100	48	67	-23.5	1.5	030	3.5	0	38.0
22	-14.5	-31.0	-23.0	100	41	74	-26.5	1.0	070	3.5	0	37.0
23	-6.0	-26.0	-16.0	100	78	95	-16.5	1.5	220	4.0	10.3	
24	-6.0	-11.5	-9.0	100	53	70	-13.5	3.0	240	5.0	0.6	
25	-11.0	-23.5	-17.0	97	44	62	-22.5	2.5	270	4.5	0	49.0
26	-12.5	-34.0	-23.0	100	48	76	-26.0	1.5	020	3.5	0	49.0
27	-10.0	-32.0	-21.0	100	50	82	-23.5	1.0	050	2.5	0	48.0
28	-2.5	-20.0	-11.5	100	56	85	-13.5	1.0	240	4.0	0	48.0
29	1.0	-14.0	-6.5	100	45	55	-14.0	3.5	300	6.0	0	46.0
30	-1.5	-18.0	-10.0	100	59	95	-10.5	1.0	210	5.5	0	
31	1.5	-7.0	-3.0	100	48	80	-6.0	3.0	020	4.5	1.5	
AVG	-6.6	-19.7	-13.3	78	30	78	-16.5	1.5	NNW	7.0	68.6	(Total)

Monthly Max = 3.5°C

Monthly Min = -34°C

Peak Gust = 16.5 MPS on 5 Jan

FEBRUARY 1982

Table B1 (cont'd) .

CRREL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind Dir.	Max Hourly	Precipitation Amt. (mm)	Snow Depth (cm)
				Max	Min	Mean					
	Max	Min	Avg	Max	Min	Mean					
1	0.0	-11.5	-6.0	100	57	83	-8.5	2.5	280	6.0	4.3
2	-2.0	-20.0	-11.0	100	53	82	-13.5	M	M	T	52
3	1.0	-2.0	-0.5	100	89	99	-0.5	M	M	26.8	51
4	6.5	-8.5	-1.0	100	48	69	-6.0	3.0	360	5.0	0
5	-6.0	-14.0	-10.0	100	52	76	-13.5	1.0	030	2.5	47
6	-0.5	-8.5	-4.5	100	42	65	-10.0	2.5	270	5.5	1.2
7	-3.0	-14.5	-9.0	84	34	53	-17.0	2.5	220	6.0	46
8	-1.0	-9.5	-10.5	94	48	62	-16.5	2.5	250	4.5	0
9	-3.0	-10.0	-11.5	100	91	97	-12.0	C	C	0.5	6.6
10	-3.5	-19.5	-11.5	100	39	73	-15.5	1.5	320	5.0	52
11	-3.5	-25.5	-14.5	100	44	78	-17.5	0.5	VAR	2.5	0.7
12	-0.5	-23.5	-12.0	100	41	77	-15.5	1.0	320	2.5	59
13	-3.5	-11.5	-7.5	95	60	86	-9.5	1.5	030	2.5	0
14	-1.5	-18.5	-10.0	100	40	77	-13.5	1.0	290	3.5	0
15	4.0	-18.5	-7.0	100	72	91	-8.5	1.0	220	4.0	0
16	5.0	-6.0	-0.5	100	35	58	-7.5	3.0	360	5.5	0
17	-2.5	-13.0	-8.0	93	39	62	-14.0	1.5	050	3.5	51
18	2.0	-17.0	-7.5	100	27	66	-13.0	1.0	270	2.0	0
19	-1.0	-14.5	-8.0	100	82	99	-8.0	0.5	VAR	1.5	49
20	3.5	-5.0	-1.0	100	70	90	-2.5	1.5	060	4.0	11.1
21	5.0	-3.0	1.0	100	54	72	-3.5	2.0	030	4.0	0.2
22	0.5	-4.5	-2.0	90	62	75	-6.0	3.5	020	4.5	53
23	1.5	-9.0	-4.0	100	57	77	-7.5	1.0	340	4.5	T
24	0.5	-12.5	-6.0	68	44	55	-13.5	2.5	030	5.5	53
25	-8.0	-17.0	-12.5	60	34	46	-21.5	4.0	340	8.0	0
26	-4.5	-19.0	-12.0	79	34	49	-20.5	2.5	340	5.0	53
27	1.0	-18.5	-9.0	100	38	70	-13.5	1.5	300	4.0	0
28	-5.0	-17.5	-11.5	100	31	61	-17.5	2.5	010	6.0	0
Avg	-0.7	-13.3	-7.4	100	27	73	-11.5	2.0	VAR	8.0	51.8

Monthly Max = 6°C  
 Monthly Min = -16°C  
 Peak Gust = 16.5 MPS on 1 Feb

## MARCH 1982

Table Bl (cont'd).

CRREL

Site	Rel.	Min.	Max.	Mean	Dew Point	Wind			Precipitation	
						Avg. Speed	Dir	Max. Hrly	Ann. (mm)	Snow Depth
R1	94	77	98	-16.0	1.5	210		4.5	1.1	52
R2	71	65	85	-8.5	2.0	260		6.0	2.1	58
R3	87	81	93	-17.0	2.0	360		4.0	0	52
R4	71	65	81	-17.0	1.0	220		2.5	4.3	52
R5	71	65	81	-4.5	2.0	270		4.5	2.2	55
R6	71	65	81	-8.0	1.5	160		3.0	0	55
R7	98	98	98	0.0	0.5	VAR		2.0	20.0	
R8	71	71	71	-11.5	2.5	300		4.5	1.8	62
R9	88	88	88	-12.0	0.5	VAR		3.0	1.5	60
R10	81	75	81	-6.5	1.0	210		3.5	0.7	62
R11	81	75	81	1.5	1.0	240		2.5	0	61
R12	98	98	98	4.0	C	C		1.4	1.4	55
R13	98	98	98	1.5	1.5	210		3.5	5.5	52
R14	59	59	59	-5.0	4.0	290		7.0	0.3	50
R15	71	71	71	-12.5	3.0	340		5.0	0	47
R16	71	71	71	-6.5	0.5	VAR		2.5	0.2	45
R17	71	71	71	-0.5	0.5	VAR		2.0	2.8	45
R18	71	71	71	-1.0	0.5	VAR		1.5	0	44
R19	71	71	71	0.5	1.0	060		2.5	0	42
R20	71	71	71	-1.0	0.5	VAR		2.5	0	41
R21	92	92	92	-3.0	1.0	190		3.0	6.3	40
R22	71	71	71	-2.0	1.5	300		3.5	0.8	38
R23	69	69	69	-3.5	1.5	300		4.0	T	37
R24	67	67	67	-2.5	1.0	220		3.5	0	35
R25	74	74	74	3.0	1.0	240		3.5	0	31
R26	91	91	91	.5	2.5	220		4.0	11.0	19
R27	48	48	48	-15.5	4.5	300		6.5	0	18
R28	46	46	46	-16.5	3.0	310		6.5	0	17
R29	67	67	67	-7.0	1.0	270		3.0	0	16
R30	23	23	23	-0.5	0.5	VAR		2.0	0	12
R31	87	87	87	-3.0	0.5	VAR		3.0	7.3	2
R32	100	100	100	100	100	100		-5.5	1.5	69.3
Avg	4.3	-7.4	-1.0	100	23	75		VAR	7.0	(Total)

Monthly Max =  $16^{\circ}\text{C}$   
 Monthly Min =  $-14^{\circ}\text{C}$   
 Peak Gust = 16 MPS on 28 Mar

## APRIL 1982

Table B1 (cont'd).

CRRRL

Date	Temperature (°C)			Rel. Hum. %			Mean Dew Point	Wind Dir.	Max W.L.Y.	Precipitation Ave. (in.)	Snow Depth (cm)
	Max	Min	Avg	Max	Min	Mean					
1	9.5	0.0	5.0	98	44	60	-2.0	4.0	260	5.5	0.4
2	5.0	-4.0	0.5	97	36	59	-6.5	3.5	360	7.0	0
3	6.0	-6.0	0.0	100	44	85	-2.5	2.0	180	4.5	8.9
4	3.0	-5.5	-1.0	100	50	67	-6.5	3.0	270	6.0	1.5
5	2.0	-9.0	-3.5	73	34	49	-13.0	3.5	350	6.0	.5
6	-6.5	-9.5	-8.0	100	51	80	-11.0	4.0	020	7.0	5.9
7	-5.5	-12.0	-9.0	78	52	63	-15.0	6.0	340	8.0	.6
8	1.5	-7.5	-3.0	58	34	47	-13.0	4.0	300	7.0	T 25
9	8.0	-9.0	-0.5	85	30	47	-10.5	1.5	330	3.0	0 22
10	8.5	-6.0	3.0	100	37	62	-3.5	2.0	290	5.0	0
11	12.0	-4.0	4.0	100	36	73	-0.5	1.5	260	2.5	.9
12	8.0	-3.0	2.5	100	50	81	-0.5	1.0	330	3.0	2.7
13	8.0	-3.0	2.5	100	63	89	1.0	1.5	240	4.5	2.0
14	10.0	-1.5	4.5	87	30	52	-4.5	3.0	330	5.5	0.1
15	15.0	-4.0	5.5	100	24	64	-0.5	0.5	VAR	3.0	0
16	20.0	3.0	11.5	100	30	65	5.0	1.5	220	4.0	0
17	16.0	1.0	8.5	100	74	91	7.0	2.0	220	5.0	6.1
18	13.0	0.0	6.5	100	41	56	-1.5	4.0	270	6.5	5.7
19	16.5	-4.0	6.5	99	30	59	-1.0	1.5	240	4.0	0
20	21.0	-0.5	10.5	100	32	53	1.5	3.0	310	6.0	0
21	12.0	0.5	6.5	100	32	58	-1.0	3.5	270	6.5	0.4
22	4.0	-4.5	-0.5	100	42	58	-7.5	2.0	310	4.0	0
23	17.0	-6.0	5.5	100	30	54	-3.0	2.5	240	4.5	0
24	20.0	3.5	12.0	100	38	68	6.5	1.0	040	3.0	0
25	24.5	-1.0	12.0	100	24	59	4.5	1.5	240	4.0	0
26	20.0	4.0	12.0	100	52	85	9.5	1.5	210	4.0	5.3
27	20.5	8.0	14.5	100	57	81	11.0	2.0	360	5.5	4.0
28	13.0	1.0	7.0	84	31	54	-1.5	0.0	010	7.5	0
29	16.5	-2.5	7.0	100	29	61	0.0	2.0	350	5.5	0
30	20.5	-1.5	9.5	100	23	55	1.0	2.0	350	6.0	0
AVG	11.1	-2.8	4.5	100	23	65	-2.0	2.5	NNW	7.5	45.5 (Total)

Monthly Max = 24°C  
 Monthly Min = -12°C  
 Peak Gust = 21.5 MPS on 7 Apr.

## OCTOBER 1980

Table B1 (cont'd.).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)			Wind (mph) <sup>†</sup>			Time	Precipitation (mm)	
	Max	Mean	Min	Max	Mean	Min	Mean	Min	Max	Dir.	Speed	Dir.	Peak		
1	6.1	3.9	5.0	100	79	90	3.33	13.5	SW	SW	2000	0.0			
2	6.7	2.2	4.4	100	96	98	6.11	27.7	S	SW	1750	21.1			
3	3.9	1.1	2.5	100	86	93	2.22	13.1	W	SW	0105	15.7			
4	3.9	-2.2	0.8	100	100	100	1.11	23.7	W	SW	1505	24.4			
5	-0.6	-2.8	-1.7	100	83	91.5	-2.22	9.5	W	SW	0010	0.0			
6	0.0	-3.9	-1.9	100	81	90.5	-3.33	5.8	W	SW	1400	0.0			
7	-1.7	-4.4	-3.1	100	77	88.5	-3.89	10.9	W	SW	2345	0.3			
8	4.4	-3.9	0.3	100	66	83	-2.22	46.9	W	SW	2205	0.3			
9	3.3	-9.4	-3.1	100	100	100	-5.56	61.7	W	SW	0440	0.3			
10	1.7	-10.6	-4.4	100	16	58	-17.22	34.4	W	SW	0335	0.8			
11	5.6	-0.6	2.5	100	100	100	2.78	36.3	SW	SW	0530	17.5			
12	0.6	-6.7	-3.1	100	16	58	-2.78	36.6	W	SW	1955	15.5			
13	-6.1	-10.0	-8.1	100	100	100	-8.33	64.1	NW	NW	2020	7.1			
14	-8.9	-12.2	-10.6	100	100	100	-10.56	67.3	NW	NW	0040	0.8			
15	-4.4	-11.1	-7.8	100	27	63.5	-8.33	25.0	W	W	0005	0.0			
16	0.6	-6.1	-2.8	100	23	61.5	-6.67	37.1	W	W	1600	0.0			
17	7.2	-0.6	3.3	100	27	63.5	3.33	38.8	W	W	2340	0.0			
18	7.8	1.7	4.7	100	100	100	4.44	55.4	W	SW	0355	25.7			
19	2.8	-5.6	-1.4	100	94	97	-1.11	45.4	W	W	1055	2.5			
20	-5.6	-10.6	-8.1	100	73	86.5	-6.67	40.8	W	W	1355	10.7			
21	-5.0	-10.6	-7.8	100	100	100	-8.33	36.9	W	W	2000	3.0			
22	-5.6	-12.2	-8.9	100	100	100	-8.89	56.0	W	W	2305	6.1			
23	-7.2	-13.3	-10.3	100	100	100	-11.67	56.4	W	W	0310	0.8			
24	1.1	-8.9	-3.9	100	14	57	-15.00	16.3	N	N	2305	0.0			
25	2.2	-5.6	-1.7	100	27	63.5	-15.00	62.8	E	E	1615	24.1			
26	1.7	-10.6	-4.4	100	31	65.5	-4.44	84.5	W	W	1240	25.1			
27	-8.9	-12.8	-10.8	100	100	100	-10.56	73.1	W	W	0025	3.6			
28	-6.1	-13.9	-10.0	100	100	100	-8.89	39.9	W	W	2105	5.8			
29	-10.6	-14.4	-12.5	100	100	100	-12.78	58.2	W	W	0440	1.8			
30	-5.6	-11.7	-8.6	100	81	90.5	-10.00	29.9	W	W	0020	0.0			
31	-5.6	-8.3	-6.9	100	45	72.5	-10.56	49.4	W	W	1910	0.8			
<b>Monthly</b>				100	14	86.1	-5.5	40.5	<b>Total</b>			1240			

Ave = -3.8  
 Max = 7.8  
 Min = -14.4

† - Conversion mph to m/s, mph x .447

5.0  
 -12.5

**NOVEMBER 1980**

Table B1 (cont'd).

**MT. WASHINGTON**

Day	Temperature (°C)			Dew Point (°C)	Wind Speed (mph)†	Dir.	Time	Precipitation (mm)
	Max	Min	Mean					
1	-7.2	-12.2	-9.7	100	100	-9.44	61.1	15.0
2	-11.7	-16.1	-13.9	100	100	-13.33	60.4	11.4
3	0.6	-15.6	-7.5	100	16	-17.78	35.8	0.5
4	1.7	-2.2	-0.3	100	55	-2.78	45.8	2.8
5	-0.6	-16.7	-8.6	100	100	-6.11	60.8	0.0
6	-11.7	-12.2	-12.2	100	59	-13.33	53.6	0.0
7	0.6	-8.3	-3.9	100	100	-4.44	47.5	15.2
8	1.1	-17.2	-8.1	100	33	66.5	64.8	7.9
9	0.0	-8.3	-4.2	100	33	66.5	45.8	0.8
10	-2.8	-16.7	-9.7	100	100	-8.33	44.4	9.7
11	-8.3	-16.7	-12.5	100	100	-15.00	63.9	8.6
12	-3.3	-13.3	-8.3	100	100	-7.78	62.4	4.3
13	-2.2	-10.6	-6.4	100	38	69	12.22	0.0
14	-3.3	-13.9	-8.6	100	100	-6.67	58.3	5.1
15	-10.3	-15.6	-12.8	100	33	66.5	45.2	3.6
16	-8.9	-18.9	-13.9	100	67	83.5	-17.22	3.3
17	-5.0	-10.6	-7.8	84	33	58.5	-15.00	1.8
18	-8.9	-16.1	-12.5	100	100	-10.56	26.4	30.5
19	-13.9	-17.8	-15.8	100	68	84	-17.22	0.0
20	-7.2	-14.4	-10.8	100	56	78	-12.78	24.4
21	-6.7	-11.1	-8.9	100	46	73	-13.89	23.5
22	-5.0	-11.1	-8.1	100	24	62	-12.22	8.6
23	0.6	-5.6	-2.5	60	25	42.5	-16.11	0.0
24	1.1	-3.3	-1.1	100	56	78	-1.67	20.2
25	1.1	-14.4	-6.7	100	92	96	-2.22	10.5
26	-11.1	-16.1	-13.6	100	47	73.5	-18.33	5.1
27	0.6	-14.4	-6.9	48	2	25	-25.56	0.0
28	-1.7	-7.2	-4.4	100	10	55	-16.67	0.8
29	-2.2	-12.2	-7.2	100	100	-8.33	50.4	11.4
30	-10.6	-14.4	-12.5	100	100	-12.22	65.9	13.5
31								
<hr/>								
Monthly			100	2	79.8	-11.6	49.8	146
Ave =								Total
Max =	1.7							293.5
Min =		-18.9						
† - Conversion mph to m/s, mph x .447								

## DECEMBER 1980

Table B1 (cont'd).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)		Speed Wind Dir.	Dir. Peak	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean					
1	-6.1	-11.7	-8.9	100	100	100	-8.33	51.8	W	1140	0.0
2	-7.8	-4.7	-6.2	100	40	70	-7.22	35.6	S	2240	2.5
3	-1.7	-23.3	-12.5	100	100	100	-11.67	59.6	NW	1125	36.8
4	-17.2	-23.9	-20.6	100	79	89.5	-21.67	NW	0435	0.1	
5	-7.2	-17.2	-12.2	100	51	75.5	-13.89	69.9	NW	0210	0.3
6	0.6	-7.8	-3.6	100	46	73	-15.56	28.7	N	0010	0.0
7	3.3	-2.2	0.6	73	17	45	-15.00	16.5	N	0150	15.2
8	2.8	-3.3	-0.3	100	24	62	0.56	46.2	W	2110	2.3
9	-3.3	-16.7	-10.0	100	43	71.5	-14.44	59.3	N	0150	2.5
10	-11.1	-17.8	-14.4	100	87	93.5	-13.89	43.6	W	2340	2.0
11	-17.8	-30.6	-24.2	100	19	59.5	-26.67	64.1	W	0205	2.0
12	-12.2	-25.0	-18.6	100	100	100	-22.22	44.0	W	2210	6.3
13	-9.4	-22.2	-15.8	100	100	100	-12.78	58.6	W	0840	8.1
14	-18.3	-34.4	-26.4	100	30	65	-25.00	60.6	W	2200	2.8
15	-17.8	-35.6	-26.7	100	100	100	-28.33	62.7	W	0000	0.8
16	-8.9	-18.3	-13.6	100	100	100	-12.78	28.6	SE	0315	9.4
17	-10.6	-22.8	-16.7	100	24	62	-26.67	42.4	W	1525	0.0
18	-11.1	-16.1	-13.6	100	6	53	-23.89	81.3	SW	0505	6.3
19	-12.2	-32.8	-22.5	100	6	53	-20.00	69.2	W	1610	4.8
20	-26.1	-31.1	-28.6	100	66	83	-31.11	63.0	NW	2350	0.0
21	-26.1	-30.6	-28.3	100	100	100	-28.89	83.0	W	0825	0.0
22	-18.3	-27.2	-22.8	100	59	79.5	-23.89	49.9	W	0040	0.5
23	-8.9	-18.9	-13.9	100	92	96	-16.11	51.0	W	0422	0.0
24	-6.7	-25.6	-16.1	100	27	63.5	-13.33	43.4	W	2028	7.1
25	-24.4	-38.3	-31.4	100	91	95.5	-33.89	84.1	NW	1355	0.0
16	-20.0	-31.1	-25.6	100	61	80.5	-25.56	49.5	W	0339	0.8
27	-11.7	-21.7	-16.7	100	22	61	-28.33	20.9	W	0555	0.1
28	-3.9	-14.4	-9.2	100	55	54.5	-19.44	53.4	SW	1746	0.8
29	0.0	-5.6	-2.8	100	9	54.5	-4.44	37.2	W	0324	0.1
30	-4.4	-24.4	-14.4	100	16	58	-18.89	43.3	NW	2207	0.0
31	-10.0	-24.4	-17.2	100	55	77.5	-28.89	54.8	NW	0220	0.0
Monthly				100	6	76.7	-19.1	51.9		178	0435
Total											109.7

Ave = 3.3  
Max = 0.6  
Min = -31.4

i - Conversion mph to m/s, mph x .447

## JANUARY 1981

Table B1 (cont'd).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)	Wind (mph) <sup>†</sup>	Time
	Max	Min	Mean	Max	Min	Mean	Mean	Dir.	Dir.
1	-9.4	-15.6	-12.5	100	2	51	-30.56	17.0	SW
2	-12.2	-35.6	-23.9	100	100	59	-15.56	39.0	W
3	-31.1	-39.4	-35.3	100	18	59	-37.22	77.0	W
4	-21.7	-38.9	-30.3	100	17	58.5	-41.67	56.0	W
5	-15.0	-26.1	-20.6	100	36	68	-23.89	66.3	NW
6	-10.6	-20.0	-15.3	100	62	81	-20.56	36.6	SW
7	-11.7	-28.9	-20.3	100	100	100	-14.44	40.3	W
8	-26.7	-34.4	-30.6	100	100	100	-30.00	73.9	W
9	-18.9	-27.2	-23.1	67	28	47.5	-29.44	21.7	W
10	-19.4	-31.7	-25.6	100	82	91	-23.89	27.3	NW
11	-29.4	-33.9	-31.7	100	100	100	-31.67	58.4	NW
12	-19.4	-31.7	-25.6	100	35	67.5	-28.89	18.5	W
13	-15.6	-22.2	-18.9	61	34	47.5	-28.33	13.0	NW
14	-16.7	-23.3	-20.0	100	32	66	-24.44	31.9	W
15	-13.9	-18.9	-16.4	100	38	69	-18.33	31.4	W
16	-12.2	-15.0	-13.6	100	28	64	-21.67	14.8	W
17	-13.9	-22.8	-18.3	100	61	80.5	-18.89	19.6	NW
18	-16.1	-22.2	-19.2	100	34	67	-21.11	64.8	NW
19	-12.2	-18.9	-15.2	100	100	100	-16.11	76.5	W
20	-11.7	-22.2	-16.9	100	20	60	-22.78	67.5	W
21	-10.0	-16.7	-13.3	51	20	35.5	-26.11	42.6	NW
22	-9.4	-16.1	-12.8	100	8	54	-21.11	40.3	W
23	-15.0	-17.8	-16.4	100	85	92.5	-16.11	28.2	NW
24	-15.6	-20.0	-17.8	100	83	91.5	-18.33	16.6	NW
25	-5.6	-21.1	-13.3	100	>1%	50	-28.33	44.8	W
26	-0.6	-7.8	-4.2	100	35	67.5	-9.44	60.0	W
27	-6.1	-12.8	-9.4	100	100	100	-8.89	60.5	W
28	-12.8	-20.0	-16.4	100	57	78.5	-19.44	52.7	W
29	-13.3	-25.0	-19.2	100	42	72	-16.67	32.2	NW
30	-18.3	-27.8	-23.1	100	28	55	-27.78	56.6	NW
31	-8.9	-22.2	-15.6	36	13	24.5	-29.44	54.7	NW
Monthly			100	2	70.0	-23.3	44.7	147	Total
								0340	33.1

Ave = -0.6  
Max = -39.4  
Min = -35.3

† - Conversion mph to m/s, mph x .447

Table B1 (cont'd).

FEBRUARY 1981

Monthly

+ - Conversion mph to m/s, mph x .44

Total 503.5

## MARCH 1981

Table B1 (cont'd.).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)			Wind (mph) <sup>†</sup>			Precipitation (mm)		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak	Dir.	Time	Amount
1	-7.2	-12.8	-10.0	100	100	100	-10.00	-10.00	62.8	W	91	W	154.5	8.4	
2	-9.4	-15.6	-12.5	100	100	100	-12.22	-12.22	35.3	W	63	NW	0010	5.6	
3	-14.4	-24.4	-19.4	100	100	100	-18.89	-18.89	44.5	W	125	W	2310	0.5	
4	-14.4	-23.9	-19.2	100	43	71.5	-21.67	-21.67	39.5	NW	68	W	0045	0.1	
5	-10.0	-18.3	-14.2	84	24	54	-22.78	-22.78	23.0	N	52	NW	0210	0.1	
6	-7.8	-11.7	-9.7	100	100	100	-25.56	-25.56	32.8	NE	53	NE	2350	2.5	
7	-6.7	-10.6	-8.6	100	84	92	-26.11	-26.11	33.9	NE	66	NE	1130	1.3	
8	-4.4	-11.7	-8.1	46	26	36	-18.33	-18.33	9.1	N	20	N	0240	0.0	
9	-8.3	-13.9	-11.1	100	69	84.5	-11.11	-11.11	35.8	NW	64	NW	2330	1.8	
10	-11.1	-15.0	-13.1	100	100	100	-13.33	-13.33	51.3	W	81	NW	0845	4.8	
11	-7.2	-16.1	-11.7	100	100	100	-12.22	-12.22	28.2	W	52	W	2305	4.6	
12	-10.0	-16.7	-13.3	100	88	94	-15.00	-15.00	27.1	W	49	W	2248	3.6	
13	-7.8	-12.2	-10.0	100	100	100	-10.56	-10.56	44.6	W	77	W	1443	4.6	
14	-12.2	-23.3	-17.8	100	100	100	-17.78	-17.78	61.9	W	115	NW	1827	5.8	
15	-7.2	-23.3	-15.3	100	23	61.5	-20.00	-20.00	67.8	W	117	W	0005	1.3	
16	-6.7	-20.0	-13.3	100	33	66.5	-14.44	-14.44	38.9	W	75	W	0248	4.8	
17	-17.8	-22.2	-20.0	100	22	61	-26.67	-26.67	71.5	NW	120	W	2335	0.0	
18	-17.8	-23.9	-20.8	100	100	100	-21.11	-21.11	78.1	W	122	W	0015	3.3	
19	-12.8	-22.8	-17.8	100	81	90.5	-18.33	-18.33	17.6	SE	56	NW	0030	1.5	
20	-11.7	-17.2	-14.4	100	53	76.5	-16.67	-16.67	18.8	SE	43	E	2010	5.6	
21	-9.4	-13.3	-11.4	100	100	100	-11.67	-11.67	31.5	NE	58	NE	0200	3.3	
22	-8.3	-13.3	-10.8	100	19	54.5	-16.11	-16.11	9.6	N	23	W	1525	0.0	
23	-5.6	-11.7	-8.6	84	10	47	-17.22	-17.22	6.3	N	15	N	0155	0.0	
24	-5.6	-11.1	-8.3	100	80	90	-11.11	-11.11	10.3	N	29	NE	2215	1.8	
25	-7.8	-11.7	-9.7	100	54	77	-11.67	-11.67	20.8	W	51	W	1746	0.1	
26	-5.6	-11.1	-8.3	79	7	43	-14.44	-14.44	19.0	W	40	SW	2310	0.0	
27	-5.6	-11.7	-8.6	100	78	89	-7.78	-7.78	33.6	NW	71	N	1650	11.7	
28	-4.4	-11.7	-8.1	61	21	41	-20.56	-20.56	47.0	W	84	W	2250	0.1	
29	3.9	-4.4	-0.3	100	62	81	-4.44	-4.44	79.6	W	108	W	1315	3.0	
30	6.1	1.1	3.6	100	66	83	1.67	45.0	48.0	W	78	W	0100	14.7	
31	1.7	-5.0	-1.7	100	74	87	-2.22	-2.22	48.5	W	101	W	0850	0.0	
Monthly			100	7	80.0	-15.1	37.9	125	2310	Total					
Ave =															93.9
Max =	6.1						-11.6								
Min =			24.4				3.6								
							-20.8								

## APRIL 1981

Table B1 (cont'd.).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C) Mean	Speed Dir.	Wind (mph) Dir. Peak	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean					
1	0.0	-4.4	-2.2	100	100	100	-2.22	W	74	1910	7.6
2	-0.6	-8.9	-4.7	100	100	100	-4.44	NW	128	1420	14.7
3	5.6	-9.4	-1.9	100	48	74	-6.11	W	87	0100	0.0
4	8.3	3.9	6.1	97	38	67.5	-0.56	SW	91	0545	0.5
5	6.7	-3.3	1.7	100	87	93.5	4.44	SW	81	0720	16.5
6	-2.8	-13.9	-8.3	100	100	100	-8.89	W	112	1930	2.3
7	-3.3	-14.4	-8.9	100	40	70.5	-13.89	W	118	1030	0.0
8	5.0	-3.9	0.6	54	33	43.5	-11.11	W	67	0100	0.0
9	6.7	-5.0	0.8	100	62	81	-2.78	W	112	2215	3.3
10	-1.7	-7.8	-4.7	100	46	73	-8.33	W	123	0205	0.0
11	2.2	-8.3	-3.1	49	52	76	-3.89	W	98	2120	11.9
12	-5.0	-10.0	-7.5	46	6	27.5	-19.44	NW	99	0220	0.0
13	0.0	-8.3	-4.2	100	8	27	-22.78	NE	35	2350	0.0
14	0.0	-13.3	-6.7	100	4	52	-21.11	W	133	2210	9.9
15	-13.3	-19.4	-16.4	100	89	94.5	-16.67	W	104	0810	0.8
16	-3.9	-20.0	-11.9	100	75	87.5	-13.33	W	81	1505	1.0
17	2.8	-5.6	-1.4	100	40	70	-5.56	W	71	1525	16.8
18	3.3	-9.4	-3.1	100	100	100	1.11	NW	102	1705	14.7
19	-4.4	-11.7	-8.1	100	17	58.8	-18.89	NW	123	0435	0.0
20	-5.0	-15.6	-10.3	100	33	66.5	-12.22	NW	74	1935	9.7
21	-15.6	-19.4	-17.5	100	100	100	-17.22	NW	98	1845	2.5
22	-9.4	-19.4	-14.4	100	40	70	-15.56	W	117	0720	0.0
23	2.2	-11.1	-4.4	100	15	57.5	-14.44	W	79	0047	1.0
24	1.7	-3.3	-0.8	100	100	100	-0.56	W	38	1628	9.9
25	-2.8	-6.7	-4.7	100	100	100	-4.44	NW	69	2350	3.0
26	-2.8	-6.1	-4.4	100	80	90	-4.44	W	83	0835	0.5
27	-1.1	-6.1	-3.6	100	73	86.5	-5.00	W	74	0227	0.8
28	1.7	-4.4	-1.4	100	62	81	-5.00	W	49	0058	0.0
29	5.0	-1.7	1.7	100	98	99	2.22	S	91	0818	9.9
30	-1.7	-5.6	-3.6	100	79	89.5	-3.89	W	77	0658	0.1
	100	4	75.3		-8.2		46.2		133	2210	

Monthly

Ave =	-4.4
Max =	6.1
Min =	-20.0 -17.5

† - Conversion mph to m/s, mph x .447

Total  
135.4

OCTOBER 1981

Table B1 (cont'd.).

MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C)	Speed	Wind (mph) †	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min						
1	4.4	-8.9	-2.2	100	20	60	-6.11	40.8	W	0115	2.5
2	2.8	-2.2	0.3	100	79	89.5	0.00	17.2	W	0010	0.1
3	-1.1	-4.4	-2.8	100	100	100	-2.78	47.5	W	0235	8.6
4	-3.3	-6.7	-5.0	100	100	100	-3.89	59.1	W	0135	7.1
5	1.7	-5.0	-1.7	100	43	71.5	-5.56	36.5	W	0410	0.0
6	5.0	-2.8	1.1	100	14	57	-6.67	24.8	S	1720	9.4
7	1.1	-5.6	-2.2	100	100	100	-2.22	40.4	W	2354	7.6
8	-4.4	-6.7	-5.6	100	100	100	-5.00	56.8	NW	0728	7.6
9	-4.4	-7.8	-6.1	100	100	100	-6.11	37.0	NW	0238	0.8
10	-5.6	-8.3	-6.9	100	88	94	-7.22	19.6	NW	0910	0.0
11	-2.8	-9.4	-6.1	92	19	55.5	-13.33	16.5	N	0616	0.0
12	4.4	-3.9	0.3	35	14	24.5	-19.44	14.0	NE	0832	0.0
13	5.6	1.7	3.6	26	7	16.5	-23.89	13.0	N	2000	0.0
14	7.8	4.4	6.1	45	7	26	-19.44	5.9	N	2315	0.0
15	6.7	2.2	4.4	30	19	24.5	-12.22	21.5	SW	1910	0.0
16	2.8	-4.4	-0.8	100	31	65.5	-3.33	33.6	NW	1930	7.6
17	4.4	-6.7	-1.1	100	8	54	-14.44	24.1	NW	0230	0.0
18	2.8	-3.9	-0.6	100	11	55.5	-12.22	38.8	S	1815	36.1
19	-1.1	-10.0	-5.6	100	100	100	-5.00	55.1	W	0102	7.1
20	-1.7	-12.2	-6.9	100	70	85	-8.89	53.1	W	0220	0.5
21	1.7	-2.2	-0.3	100	83	91.5	-2.22	49.3	W	0100	0.1
22	3.3	0.0	1.7	100	67	83.5	-1.11	37.7	S	0207	0.0
23	5.0	-5.0	-0.0	100	100	100	2.78	36.6	S	1232	48.0
24	-5.0	-12.8	-8.9	100	19	59.5	-8.89	45.8	W	1225	12.4
25	-0.6	-9.4	-5.0	100	40	70	-15.00	26.1	SW	1800	0.0
26	7.2	-1.7	2.8	100	100	100	2.22	33.7	SW	1322	15.5
27	9.4	6.1	7.8	100	100	100	8.33	47.2	SW	0316	39.1
28	8.3	-5.0	1.7	100	14	57	2.78	25.0	NW	1240	33.5
29	1.7	-2.2	-0.3	30	11	20.5	-21.11	13.6	N	0005	0.0
30	1.7	-1.1	0.3	34	15	24.5	-18.89	6.7	SE	2110	0.0
31	3.3	-1.7	0.8	55	11	33	-18.89	12.5	SW	2305	0.0
	100	7	68.3				-9.0	31.9		2015	

Monthly

Ave = 9.4  
Max = 12.8  
Min = 12.8

† - Conversion mph to m/s, mph x .447

Total  
243.6

Table B1 (cont'd.).

NOVEMBER 1981

MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)			Wind (mph) <sup>1</sup>			Precipitation (mm) Amount	
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak	Dir.	
1	5.6	-0.6	2.5	100	13	56.5	-11.67	74	NW	1750	3.8			
2	3.9	-8.3	-2.2	100	66	83	-1.67	57.8	W	2030	0.0			
3	-6.7	-11.1	-8.9	100	34	67	-11.67	66.3	W	0825	0.0			
4	-2.8	-8.3	-5.6	100	11	55.5	-11.67	55.9	W	0140	0.0			
5	3.9	-4.4	-0.3	67	9	38	-22.22	31.5	NW	0101	0.0			
6	3.9	-3.3	0.3	100	76	88	0.56	36.4	W	1520	11.7			
7	-2.8	-11.7	-7.2	100	100	<1%	-6.67	28.0	W	2026	0.5			
8	-1.1	-8.9	-5.0	100	24	62	-10.56	52.7	NW	0146	0.0			
9	-1.7	-15.0	-8.3	100	38	69	-6.11	53.5	W	1643	0.0			
10	-3.9	-11.7	-7.8	100	5	52.5	-31.67	25.5	NW	2325	0.0			
11	-5.0	-13.9	-9.4	100	100	100	-6.67	50.5	NW	2340	4.3			
12	-3.9	-16.7	-10.3	100	50	23.89	40.2	NW	81	NW	0823	1.3		
13	3.9	-5.6	-0.8	70	7	38.5	-17.22	35.5	NW	60	NW	1140	0.0	
14	4.4	-1.1	2.8	50	29	39.5	-9.44	29.5	N	51	E	2245	0.0	
15	3.9	0.6	2.2	100	51	75.5	-1.67	46.3	E	78	E	1040	10.2	
16	5.6	1.7	3.6	100	100	100	-3.89	37.8	E	61	E	0325	28.7	
17	4.4	1.1	2.8	100	100	100	3.89	14.0	NE	32	NE	1035	17.5	
18	2.8	-8.9	-3.1	100	86	93	-1.67	18.8	W	64	W	2050	2.0	
19	-5.0	-9.4	-7.2	100	100	100	-8.33	51.0	NW	91	NW	0917	0.8	
20	0.0	-7.8	-3.9	100	69	84.5	-5.00	22.2	S	49	SE	1431	4.1	
21	-0.6	-11.1	-5.8	100	100	100	-5.56	46.0	W	104	W	2216	12.7	
22	-10.6	-14.4	-12.5	100	100	100	-12.22	57.5	W	91	W	0516	3.0	
23	-12.8	-16.7	-14.7	100	100	100	-14.44	41.5	W	71	NW	0001	1.5	
24	-10.0	-15.0	-12.5	100	59	79.5	-15.56	26.9	NW	53	NW	0155	0.0	
25	-10.0	-13.9	-11.9	90	70	80	-13.89	29.3	N	53	N	1645	0.1	
26	-3.3	-11.7	-7.5	66	24	45	-18.89	21.6	N	52	N	0215	0.1	
27	-2.8	-8.9	-5.8	100	23	61.5	-8.89	48.5	W	93	W	1800	7.4	
28	-8.9	-16.1	-12.5	100	100	100	-11.67	61.9	W	102	W	1740	21.8	
29	-13.9	-18.3	-16.1	100	100	100	-15.00	60.9	NW	95	NW	0310	13.0	
30	-9.4	-18.3	-13.9	100	49	74.5	-18.33	43.2	NW	63	NW	0400	1.0	

Monthly

Ave = -9.0  
Npx = 5.6 3.6  
Min = -18.3 -16.1

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Table B1 (cont'd).

## DECEMBER 1981

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C) Mean	Speed	Wind Dir.	Wind (mph) <sup>†</sup> Peak	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min							
1	-1.1	-12.8	-6.9	100	6	53	-23.33	25.2	S	7.4	2245	7.4
2	1.1	-8.3	-3.6	100	100	88	-3.89	41.5	W	5.8	0331	5.8
3	-4.4	-9.4	-6.9	100	94	94	-6.11	20.7	NW	2.8	2051	2.8
4	-7.8	-12.2	-10.0	100	84	92	-10.56	19.2	W	0.5	0002	0.5
5	-11.1	-12.8	-11.9	100	86	93	-12.22	21.9	N	4.1	2352	4.1
6	-8.9	-16.7	-12.8	100	100	100	-13.33	56.7	N	21.6	1005	21.6
7	-4.4	-15.0	-9.7	100	100	100	-7.78	44.8	NW	1.3	1638	1.3
8	-3.3	-11.7	-7.5	100	35	67.5	-12.22	15.6	N	0.5	0413	0.5
9	-7.2	-16.7	-11.9	100	100	100	-10.00	24.9	N	4.6	1945	4.6
10	-7.2	-13.3	-10.3	100	100	100	-10.00	20.9	N	2.5	1825	2.5
11	-10.0	-13.9	-11.9	100	100	100	-12.22	31.5	N	0500	0500	2.5
12	-8.9	-13.3	-11.1	100	13	56.5	-10.00	23.1	N	0.8	1445	0.8
13	-5.6	-14.4	-10.0	19	6	12.5	-2.78	16.7	W	0.0	2355	0.0
14	-7.8	-15.0	-11.4	100	49	74.5	-15.56	23.6	W	1.3	0330	1.3
15	-1.1	-9.4	-5.3	100	65	82.5	-6.67	11.4	S	0240	10.9	10.9
16	-2.8	-16.7	-9.7	100	100	100	-8.89	64.0	W	1815	27.4	27.4
17	-12.2	-18.3	-15.3	100	37	68.5	-18.33	51.2	W	0157	6.3	6.3
18	-10.6	-15.0	-12.8	100	100	100	-12.78	20.1	SW	0253	6.9	6.9
19	-14.4	-25.6	-20.0	100	100	100	-18.89	31.2	NW	1829	4.3	4.3
20	-17.2	-26.1	-21.7	100	49	74.5	-25.00	44.5	NW	0428	1.8	1.8
21	-8.3	-19.4	-13.9	70	26	48	-27.78	36.9	W	2338	0.0	0.0
22	-5.6	-13.3	-9.4	100	69	84.5	-11.11	43.6	W	0135	3.6	3.6
23	-3.3	-11.7	-7.5	100	100	100	-6.67	41.0	W	1752	20.6	20.6
24	-9.4	-13.9	-11.7	100	100	100	-11.67	44.6	W	2107	0.0	0.0
25	-13.3	-16.1	-14.7	100	100	100	-14.44	57.6	W	0517	1.5	1.5
26	-10.6	-14.4	-12.5	100	13	56.5	-15.00	34.8	W	0510	1.5	1.5
27	-10.6	-13.3	-11.9	100	40	70	-16.67	20.4	E	2055	10.7	10.7
28	-8.9	-12.2	-10.6	100	95	90	-10.00	18.3	W	41	2145	2.5
29	-10.0	-17.8	-13.9	100	100	100	-12.22	51.6	W	105	1755	23.4
30	-16.1	-20.0	-18.1	100	72	86	-19.44	59.8	NW	0230	3.0	3.0
31	-9.4	-17.2	-13.3	100	29	64.5	-23.33	30.1	W	0130	0.0	0.0
				100	6	83.0	-13.2	33.8		141	1815	

Monthly

Ave = -11.2  
 Max = 1.1      Min = -26.1      -21.7

Total  
 180.2

† - Conversion mph to m/s, mph x 447

Table B1 (cont'd).

## JANUARY 1982

## MT. WASHINGTON

Day	Temperature ( $^{\circ}$ C)			Relative Humidity %		Dew Point ( $^{\circ}$ C)	Speed	Wind (mph) +	Dir.	Time
	Max	Min	Mean	Max	Min	Mean				
1	-5.6	-12.8	-9.2	100	100	-11.11	42.8	S	87	2325
2	-12.2	-21.1	-16.7	100	25	-18.89	80.0	NW	123	1040
3	-1.7	-14.4	-8.1	100	7	-16.67	22.5	W	51	1417
4	1.7	-10.6	-4.4	100	100	-4.44	50.6	S	95	2022
5	-5.6	-24.4	-15.0	100	100	-14.44	84.3	W	139	1355
6	-8.9	-22.8	-15.8	100	35	-18.89	57.4	W	94	0030
7	-8.9	-23.3	-16.1	100	100	12.78	50.8	W	102	2325
8	-22.8	-30.0	-26.4	100	100	-27.22	69.2	W	102	0225
9	-21.7	-27.2	-24.4	100	80	-24.44	36.8	W	79	0330
10	-26.7	-35.6	-31.4	100	100	-31.11	38.3	W	87	1905
11	-26.1	-33.3	-29.7	100	76	-32.22	28.6	W	51	0140
12	-16.1	-33.9	-25.0	100	63	-30.00	38.5	NW	85	1035
13	-12.8	-19.4	-16.1	100	10	-28.89	33.4	SW	59	2200
14	-6.1	-19.4	-10.4	100	100	-11.67	13.8	SE	44	0025
15	-10.0	-26.1	-18.1	100	72	-19.44	55.8	NW	98	1705
16	-12.8	-26.1	-19.4	100	18	-21.11	51.0	W	87	0000
17	-21.1	-39.4	-30.3	100	100	-33.33	92.7	W	136	1238
18	-28.9	-38.3	-33.6	100	100	-33.89	90.5	W	128	0217
19	-13.9	-31.2	-22.5	100	23	-31.11	60.6	NW	99	0139
20	-14.4	-28.9	-21.7	100	52	-20.56	66.9	W	116	1605
21	-21.1	-25.0	-23.1	62	24	-33.33	54.4	NW	92	0005
22	-11.1	-26.7	-18.9	45	14	-36.11	57.5	NW	106	0245
23	-5.0	-20.6	-12.8	100	12	-23.89	44.2	S	94	1015
24	-6.7	-26.1	-16.4	100	100	-16.67	59.8	W	94	1625
25	-26.1	-32.8	-29.4	100	100	-29.44	74.9	W	101	1205
26	-23.3	-31.1	-27.2	100	72	-28.89	57.2	W	90	0405
27	-11.7	-24.4	-18.1	100	14	-30.56	24.5	N	58	0050
28	-6.1	-13.9	-10.0	100	18	-25.56	59.9	SW	102	2033
29	-11.7	-23.3	-17.5	100	81	-18.89	81.0	W	122	0145
30	-6.7	-16.7	-11.7	100	32	-16.67	60.3	W	116	1417
31	-4.4	-16.7	-10.6	100	69	-15.56	49.7	W	104	0222

Monthly  
Ave = -19.1  
Max = 1.7  
Min = -39.4

+ - Conversion mph to m/s, mph x .447  
Total  
203.7

**FEBRUARY 1982**

Table B1 (cont'd.).

**MT. WASHINGTON**

Day	Temperature (°C)			Relative Humidity %		Dew Point (°C) Mean	Speed	Wind (mph) <sup>1</sup> Dir. Peak	Dir.	Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min						
1	-0.6	-20.6	-10.6	100	77	88.5	-10.56	68.5	W	137	10.9
2	-3.9	-11.7	-7.8	33	4	18.5	-28.89	30.8	S	70	NW
3	3.3	-7.2	-1.9	100	100	100	-4.44	56.5	SW	131	0.0
4	2.2	-15.6	-6.7	100	22	61	-10.56	61.7	SW	116	32.3
5	-11.7	-16.1	-13.9	100	30	65	-11.67	35.2	SW	63	0.4
6	-7.2	-24.4	-15.8	100	100	100	-16.11	72.2	W	112	220.5
7	-10.3	-26.1	-22.2	100	47	73.5	-23.89	71.2	W	107	10.7
8	-17.2	-19.4	-18.3	100	100	100	-18.33	62.4	W	98	0.0
9	-12.2	-19.4	-15.8	100	78	89	-16.11	41.9	W	77	143.0
10	-13.3	-23.9	-18.6	100	80	90	-20.00	60.2	W	106	0.0
11	-15.6	-25.6	-20.6	100	51	75.5	-23.89	51.5	W	79	215.3
12	-14.4	-22.8	-18.6	100	26	63	-23.33	41.3	W	87	0.0
13	-13.9	-23.9	-18.9	100	48	74	-19.44	21.8	SW	84	1.8
14	-16.1	-23.9	-20.0	100	58	79	-22.22	51.5	W	77	113.2
15	-6.1	-16.1	-11.1	100	22	61	-14.44	62.0	W	106	0.0
16	-6.1	-18.3	-12.2	100	49	74.5	-12.78	64.6	W	93	0.3
17	-10.0	-16.1	-13.1	23	3	13	-39.44	37.8	N	82	0.0
18	-5.0	-12.2	-8.6	27	8	17.5	-31.11	10.4	NE	40	2.5
19	-5.0	-11.1	-8.1	100	8	54	-18.89	39.2	W	79	0.0
20	-7.8	-9.4	-8.6	100	89	94.5	-8.89	25.5	N	56	3.3
21	-7.2	-11.1	-9.2	100	87	93.5	-10.56	19.3	N	40	0.3
22	-5.6	-13.9	-9.7	100	93	96.5	-10.56	27.6	NE	53	0.8
23	-5.0	-17.8	-11.4	100	57	78.5	-10.00	39.6	W	117	0.0
24	-14.4	-25.0	-19.7	100	11	55.5	-26.67	64.1	NW	127	211.5
25	-25.0	-31.7	-28.3	100	77	88.5	-29.44	86.0	NW	133	0.5
26	-22.2	-31.1	-26.7	100	77	38.5	-28.89	78.2	W	116	0.0
27	-20.0	-22.8	-21.4	100	82	91	-21.11	61.7	W	93	212.5
28	-17.8	-25.0	-21.4	100	19	59.5	-31.11	66.0	W	101	0.0
29											
30											
31											

Monthly

Ave = -15.0  
Max = 3.3  
Min = -26.1  
↓ - Conversion mph to m/s, mph x .447

Total  
102.7  
1810

MARCH 1982

Table B1 (cont'd).

MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)			Wind (mph)†			Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Speed	Dir.	Peak		
1	-11.7	-17.8	-14.7	100	16	58	-28.89	39.7	SW	90	SW	2320	2.3	
2	-11.7	-21.7	-16.7	100	100	100	-16.11	60.6	W	97	W	2352	3.0	
3	-18.3	-25.6	-21.9	100	55	77.5	-25.56	61.2	NW	94	W	0815	1.8	
4	-9.4	-18.3	-13.9	100	13	56.5	-23.89	34.8	W	85	SW	1920	9.4	
5	-1.1	-16.7	-8.9	100	100	100	-8.89	65.2	W	116	SW	0410	3.6	
6	-1.1	-17.2	-9.2	94	11	52.5	-23.89	35.4	W	61	W	0215	0.1	
7	0.0	-10.6	-5.3	100	100	100	-0.56	26.6	SW	63	S	0005	30.7	
8	-9.4	-25.0	-17.2	100	100	100	-15.56	60.6	W	101	W	0820	3.3	
9	-15.0	-20.6	-17.8	100	10	55	-28.33	32.5	W	62	SW	1545	3.8	
10	-3.9	-16.7	-10.3	100	39	69.5	-17.22	29.3	SW	82	SW	2359	0.5	
11	0.6	-7.8	-3.6	100	100	100	-2.78	65.6	W	94	SW	1744	3.8	
12	1.1	-3.9	-1.4	100	39	69.5	-0.56	16.7	W	67	W	0125	0.1	
13	1.1	-10.0	-4.4	100	30	65	-6.11	47.3	SW	101	W	2211	2.5	
14	-9.4	-16.7	-13.1	100	75	87.5	-12.22	81.8	W	129	W	2144	7.9	
15	-15.0	-18.9	-16.9	100	55	77.5	-20.00	76.8	NW	122	NW	2213	0.0	
16	-3.3	-16.1	-9.7	53	18	35.5	-22.22	46.8	NW	121	NW	0014	0.0	
17	-5.6	-10.6	-8.1	100	31	65.5	-13.33	21.2	N	51	N	2255	2.8	
18	-3.9	-10.0	-6.9	63	36	49.5	-17.22	12.3	N	43	N	0035	0.3	
19	-7.2	-11.1	-9.2	100	84	92	-10.00	7.5	N	26	W	1820	0.3	
20	-8.3	-12.2	-10.3	100	79	89.5	-11.67	24.9	NW	41	W	1715	0.1	
21	-7.2	-10.6	-8.9	100	27	63.5	-12.78	26.7	S	58	SE	1735	11.7	
22	-8.3	-12.8	-10.6	100	100	100	-10.56	57.7	W	89	W	0955	16.3	
23	-11.7	-14.4	-13.1	100	74	87	-13.33	46.4	W	76	W	0810	3.8	
24	-6.1	-12.2	-9.2	100	60	80	-13.33	24.7	W	53	SW	2338	0.0	
25	-1.1	-6.1	-3.6	100	82	91	-5.00	34.1	S	69	S	2222	0.0	
26	-1.1	-15.6	-8.3	100	58	79	-6.11	54.8	S	95	S	0932	17.8	
27	-14.4	-27.8	-21.1	100	100	100	-21.67	85.7	W	128	W	2008	4.3	
28	-18.3	-29.4	-23.9	100	66	83	-27.22	79.3	W	118	W	0508	0.0	
29	-8.3	-18.9	-13.6	100	72	86	-17.22	56.2	W	83	W	1316	0.0	
30	-1.7	-9.4	-5.6	100	20	60	-15.00	27.3	W	51	W	0210	0.0	
31	2.2	-3.3	-0.6	100	100	100	-2.78	40.3	SW	81	W	2335	11.4	

Monthly

Total

Ave =	-10.9
Max =	2.2
Min =	-29.4

† - Conversion mph to m/s, mph x .447

## APRIL 1982

Table B1 (cont'd).

## MT. WASHINGTON

Day	Temperature (°C)			Relative Humidity %			Dew Point (°C)		Wind (mph) †			Time	Precipitation (mm) Amount
	Max	Min	Mean	Max	Min	Mean	Mean	Dir.	Peak	Dir.			
1	-3.3	-12.8	-8.1	100	100	100	-7.78	W	132	11.4	0605	W	11.4
2	-5.6	-20.6	-13.1	100	13	56.5	-22.22	NW	123	3.6	1010	S	3.6
3	-1.7	-11.1	-6.4	100	12	56	-17.22	S	110	38.6	1840	W	38.6
4	-1.7	-20.0	-10.8	100	100	100	-9.44	47.1	94	9.7	1840	N	9.7
5	-18.3	-25.6	-21.9	100	82	91	-21.67	48.7	110	1.3	1250	N	1.3
6	-7.2	-22.8	-15.0	100	7	53.5	-17.78	69.1	102	15.5	2140	N	15.5
7	-21.1	-27.2	-24.2	100	100	100	-23.89	33.6	102	36.6	1815	NW	36.6
8	-17.2	-24.4	-20.8	100	100	100	-21.67	88.3	162	7.9	0140	W	7.9
9	-12.8	-18.9	-15.8	100	60	80	-18.89	98.1	140	0.0	0039	W	0.0
10	-10.0	-17.8	-13.9	100	65	82.5	-16.67	76.0	116	0.0	0848	W	0.0
11	-4.4	-12.8	-8.6	100	63	81.5	-10.00	82.5	136	1.0	0626	W	1.0
12	-7.8	-10.0	-8.9	100	100	100	-8.89	23.4	70	4.1	2045	NW	4.1
13	-0.6	-11.1	-5.8	100	58	79	-8.33	29.8	66	0.8	2328	S	0.8
14	-7.2	-12.8	-10.0	100	84	92	-10.56	48.2	123	0.8	0252	W	0.8
15	-0.6	-12.8	-6.7	100	15	57.5	-19.44	79.5	127	0.0	0030	W	0.0
16	6.1	-2.2	1.9	69	23	46	-8.89	23.5	61	0.0	0600	W	0.0
17	6.7	2.8	4.7	100	39	69.5	3.33	32.1	58	6.6	1315	NW	6.6
18	5.6	-12.2	-3.3	100	100	100	-4.44	43.9	84	0.8	2030	W	0.8
19	0.0	-12.8	-6.4	100	59	79.5	-10.56	68.2	107	0.5	0930	W	0.5
20	5.0	-1.7	1.7	87	53	70	-4.44	61.8	102	2.5	2335	SW	2.5
21	2.2	-14.4	-6.1	100	76	88	-3.33	32.3	64	0.0	2337	W	0.0
22	-11.7	-15.0	-13.3	100	100	100	-13.33	58.4	106	3.3	0004	W	3.3
23	-2.8	-11.7	-7.2	100	65	82.5	-9.44	51.5	99	0.8	2145	W	0.8
24	1.7	-5.6	-1.9	100	81	90.5	-3.89	53.0	93	2.5	0220	W	2.5
25	7.8	0.0	3.9	83	45	64	-2.78	44.3	98	0.0	0932	W	0.0
26	6.1	1.7	3.9	100	49	74.5	-1.67	39.6	61	24.4	2343	S	24.4
27	5.6	-2.2	1.7	100	100	100	-3.33	29.9	70	12.7	0005	W	12.7
28	-1.7	-8.9	-5.3	64	42	53	-12.78	62	68	0.0	2340	N	0.0
29	-3.3	-9.4	-6.4	71	40	55.5	-12.78	34.0	71	0.0	0335	N	0.0
30	0.6	-7.8	-3.6	70	55	62.5	-10.00	56.1	108	0.1	1620	NW	0.1
31	31										1815		

## Monthly

Total

Ave = -7.4

Max = 7.8

Min = 4.7

-27.2

-28.2

† - Conversion mph to m/s, mph x .447

Figure B1. Monthly wind roses for Loon Mountain, 1980-81.

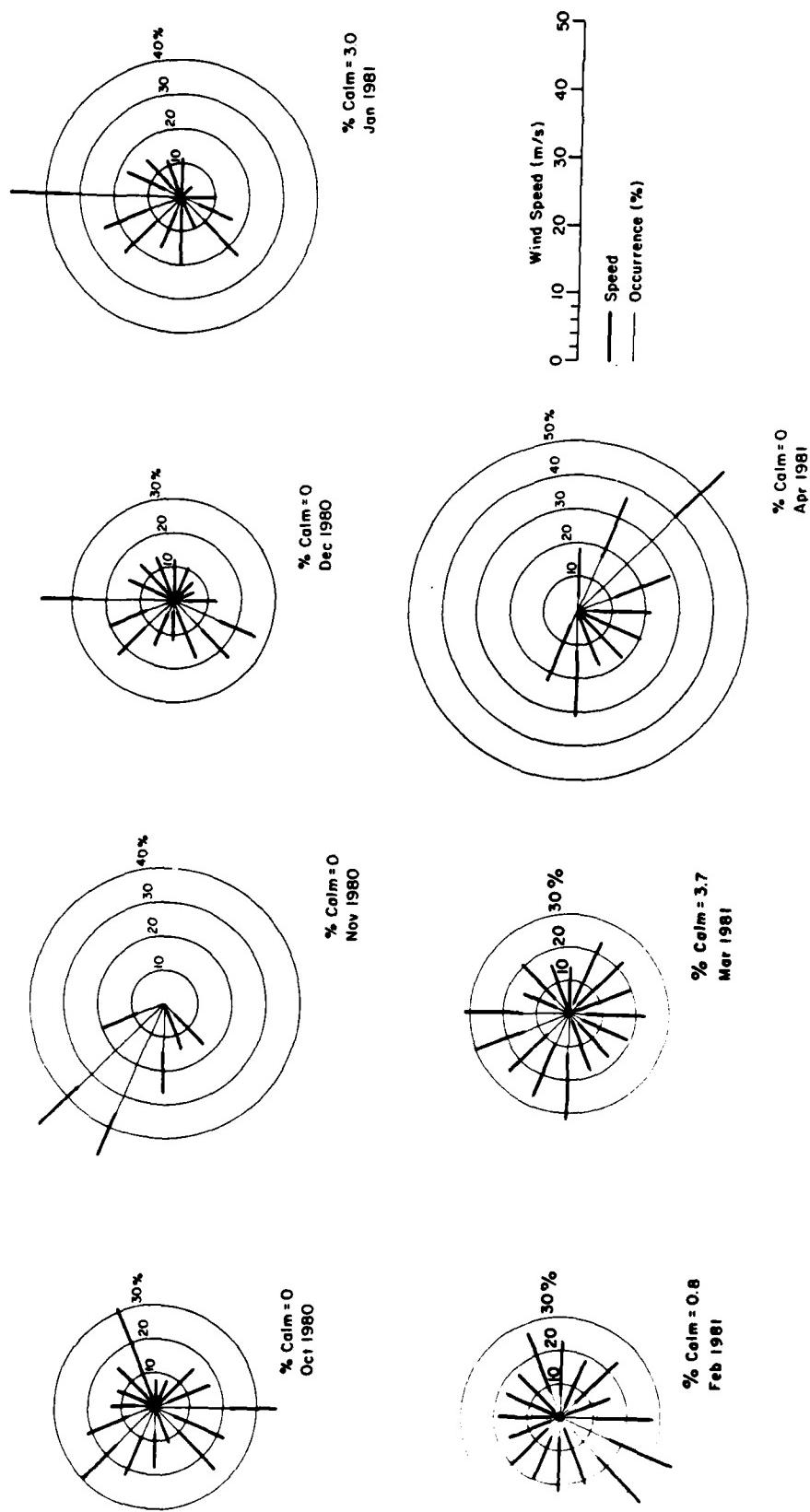


Figure B2. Monthly wind roses for Loon Mountain, 1981-82.

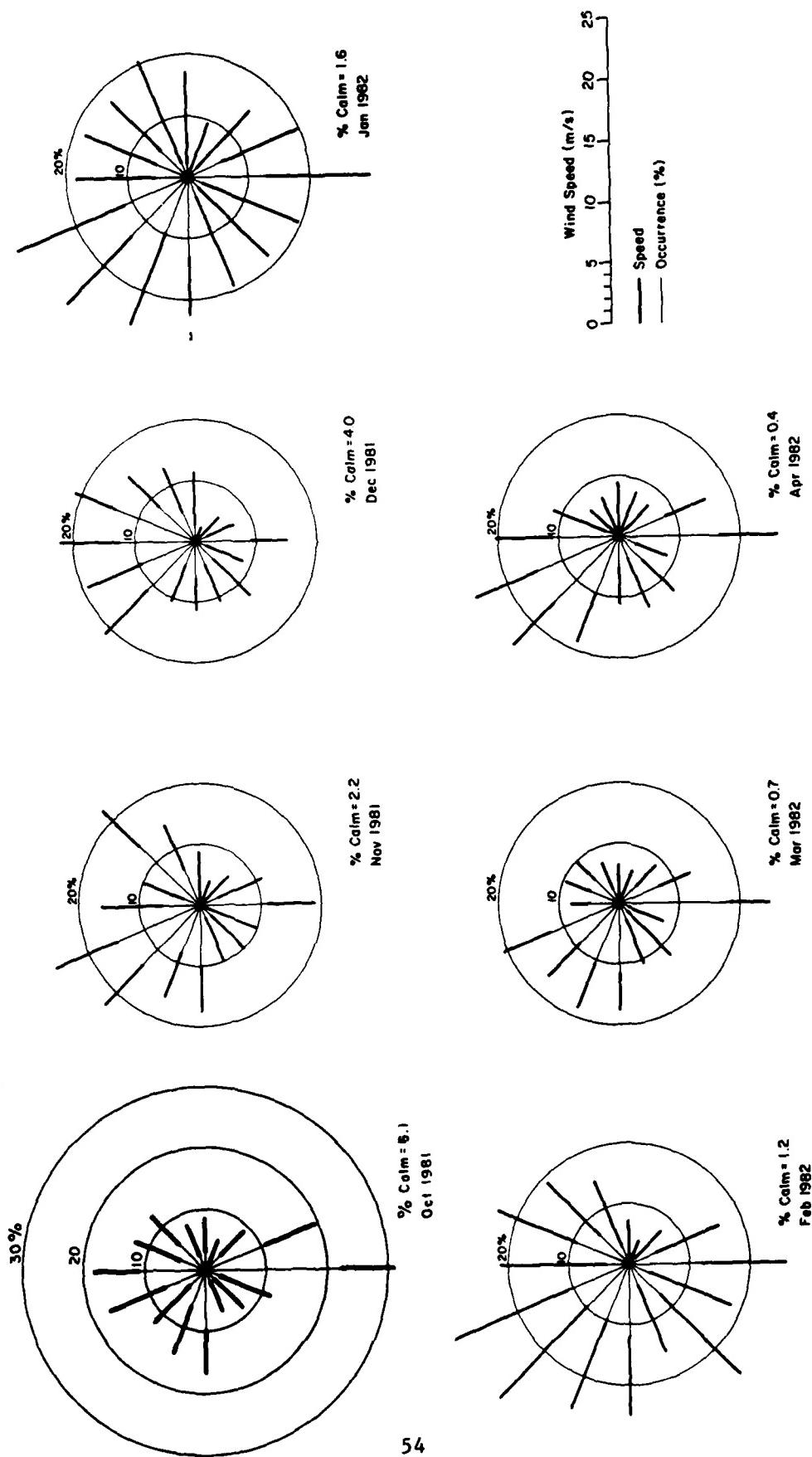


Figure B3. Monthly wind roses for CRREL, 1980-81.

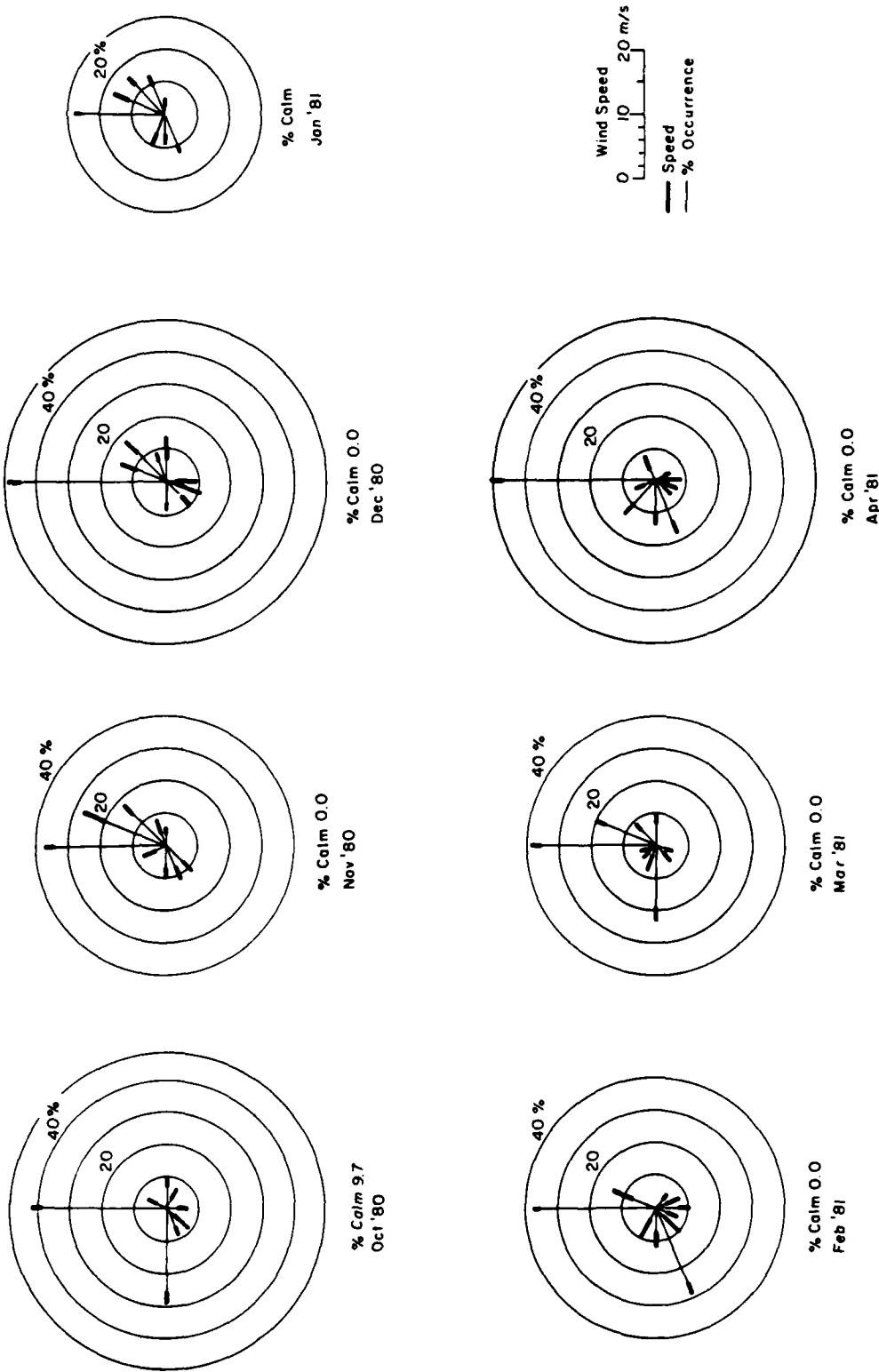


Figure B4. Monthly wind roses for CRREL, 1981-82.

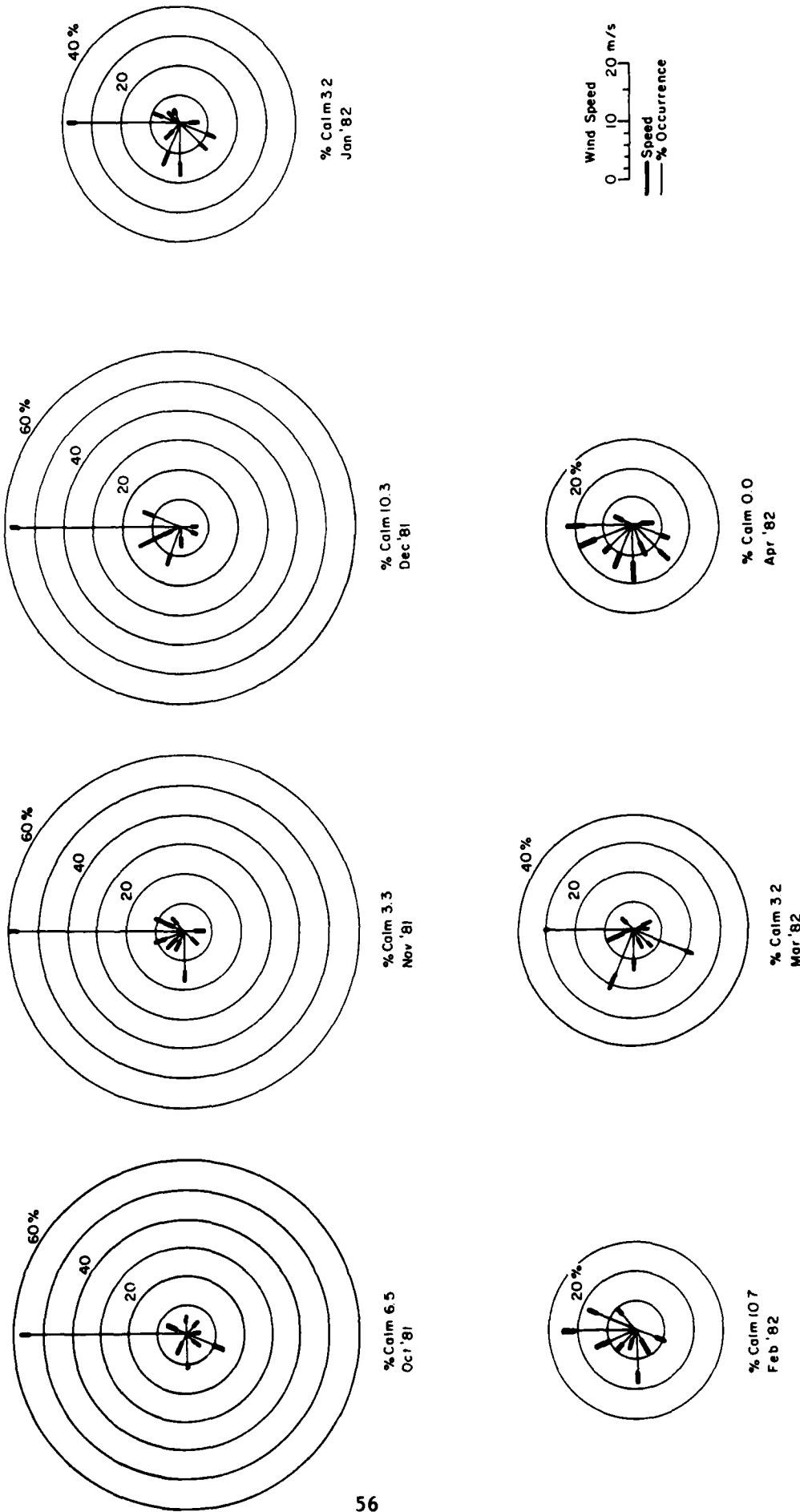


Figure B5. Monthly wind roses for Mount Washington, 1980-81.

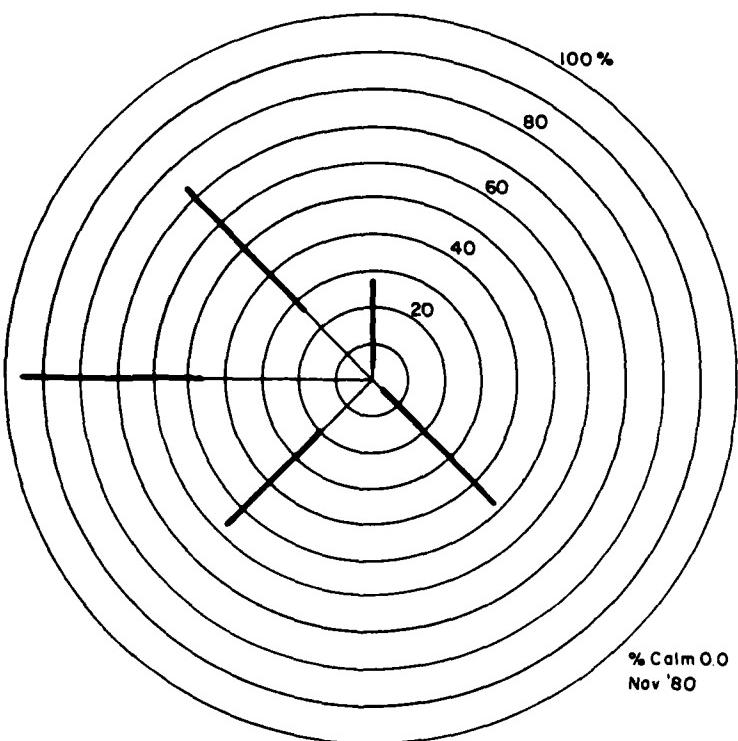
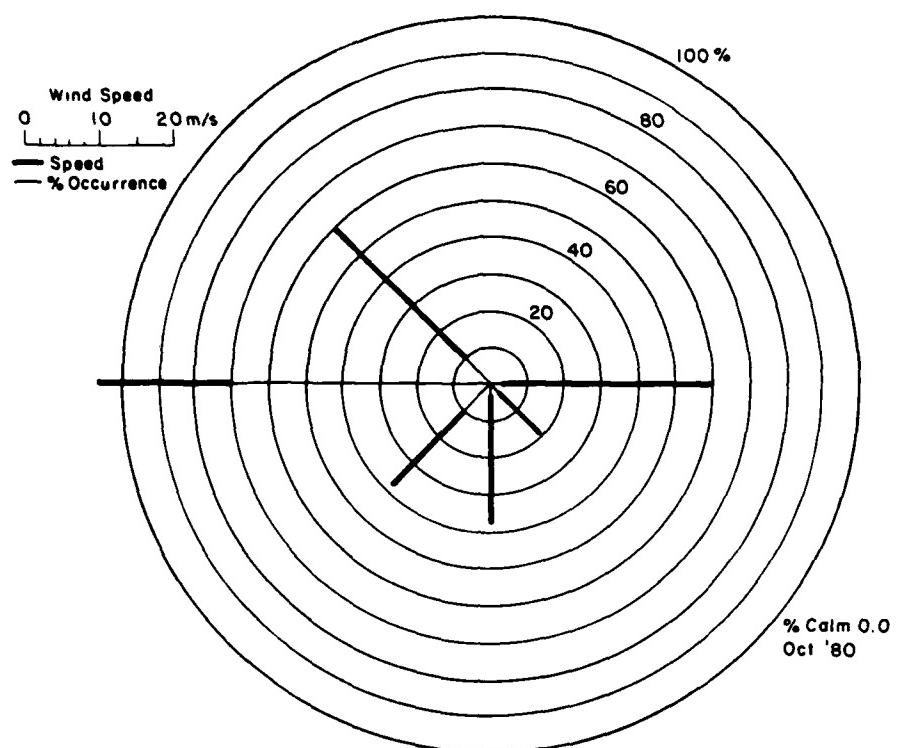


Figure B5 (cont'd.).

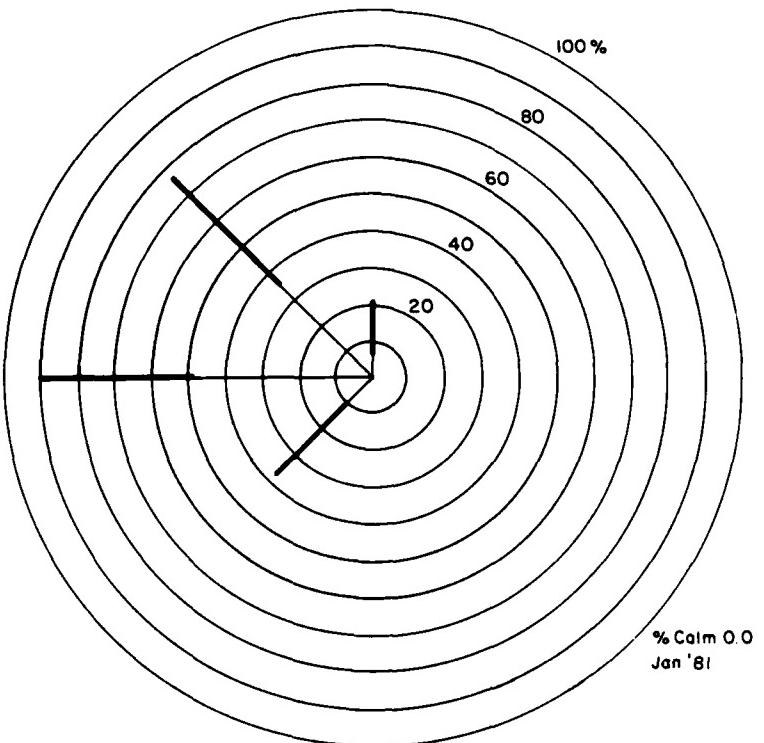
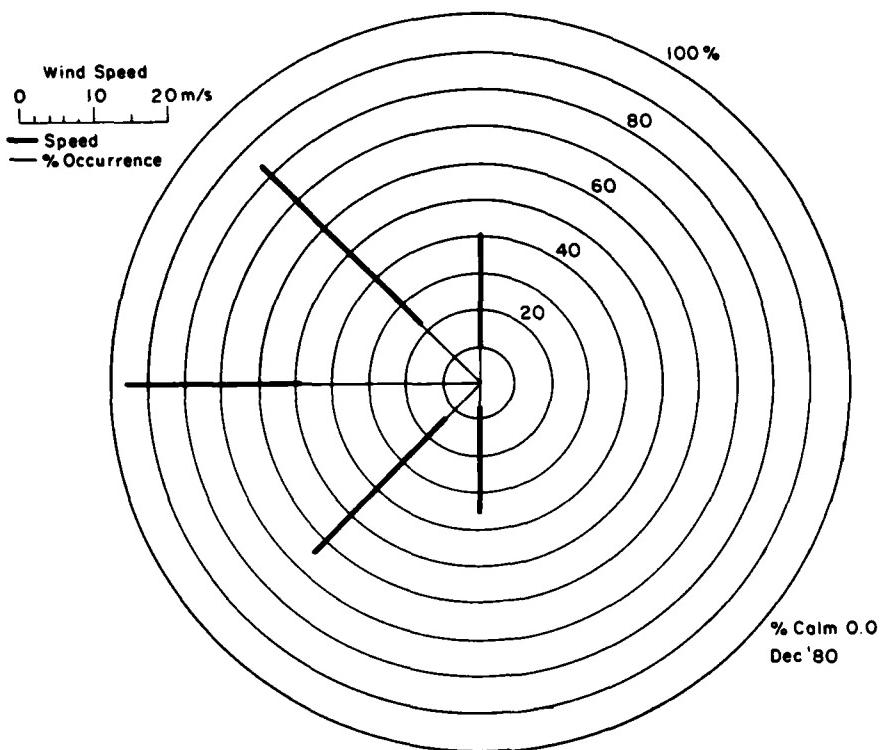
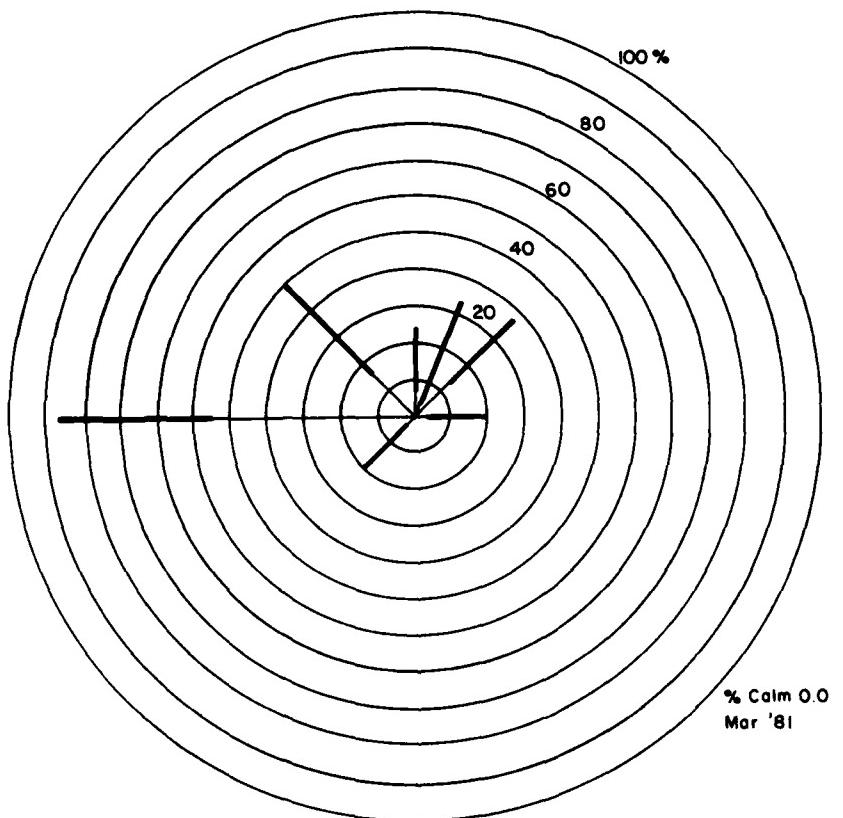
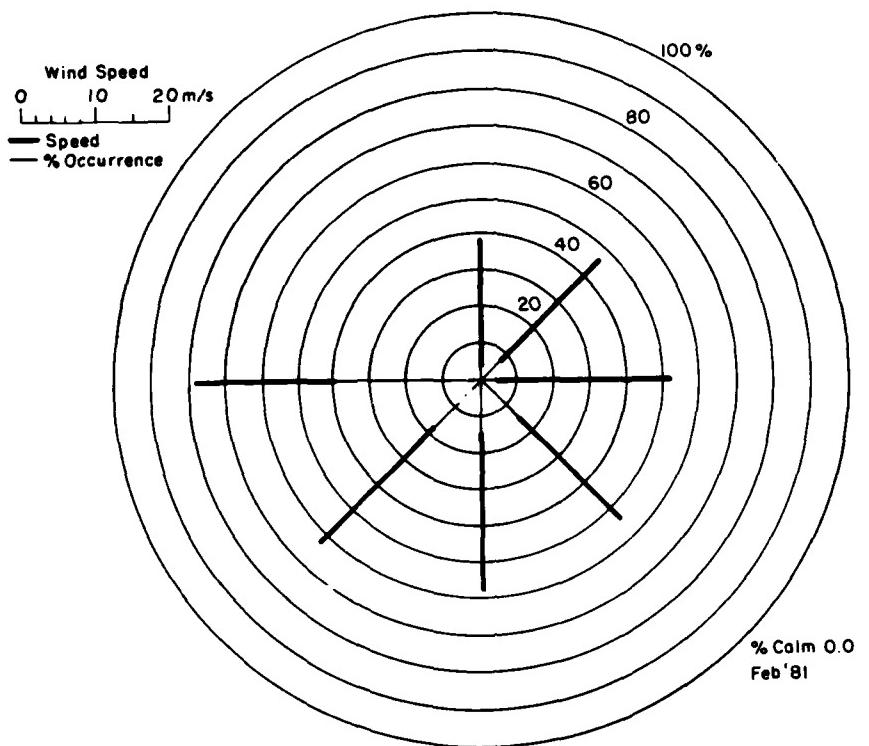


Figure B5 (cont'd).



**Figure B5 (cont'd).**

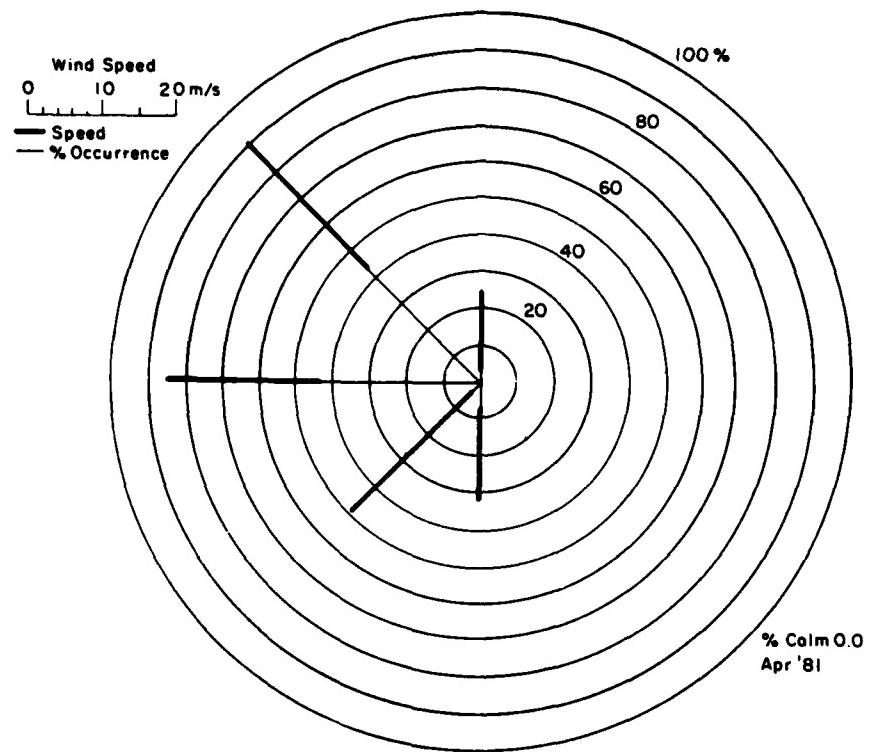


Figure B6. Monthly wind roses for Mount Washington, 1981-82.

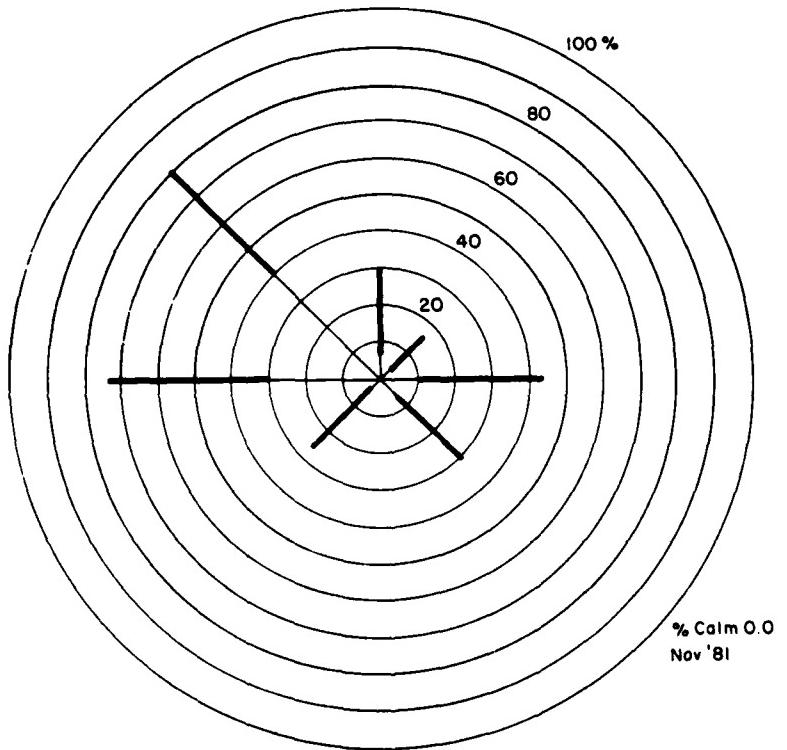
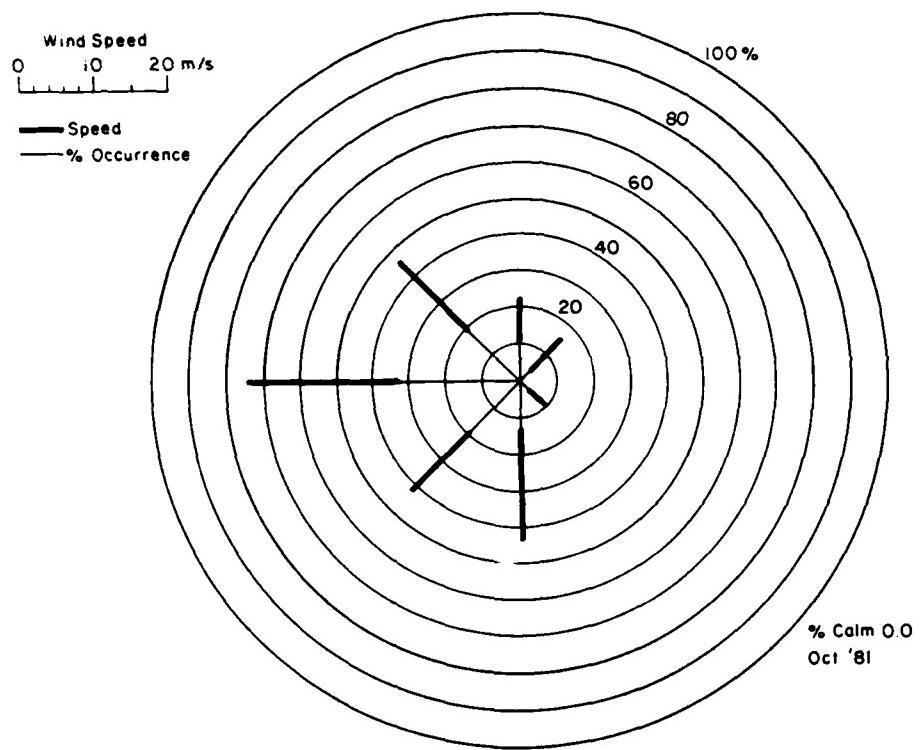


Figure B6 (cont'd).

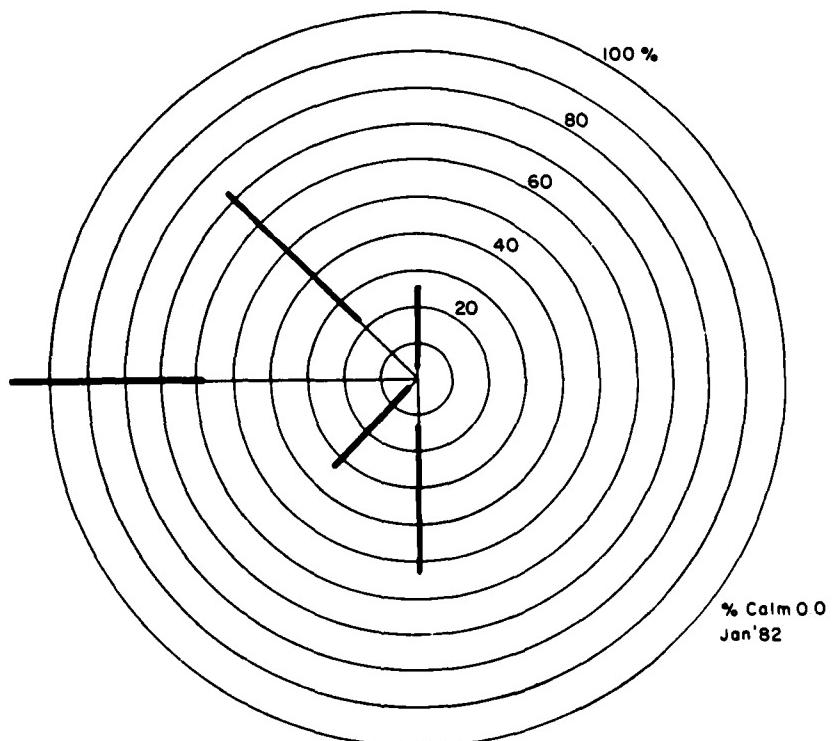
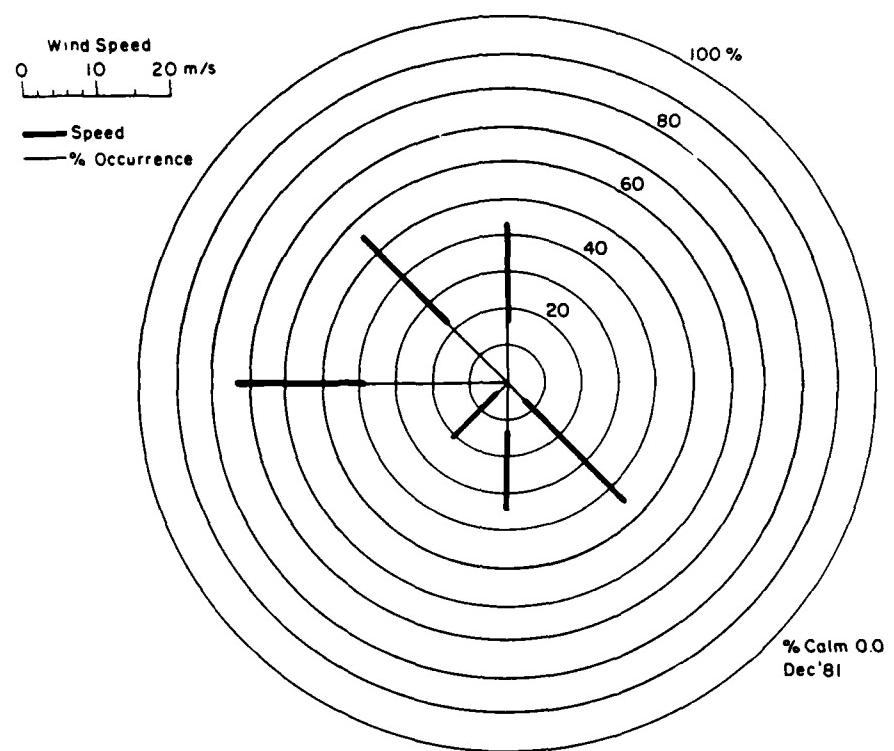


Figure B6 (cont'd).

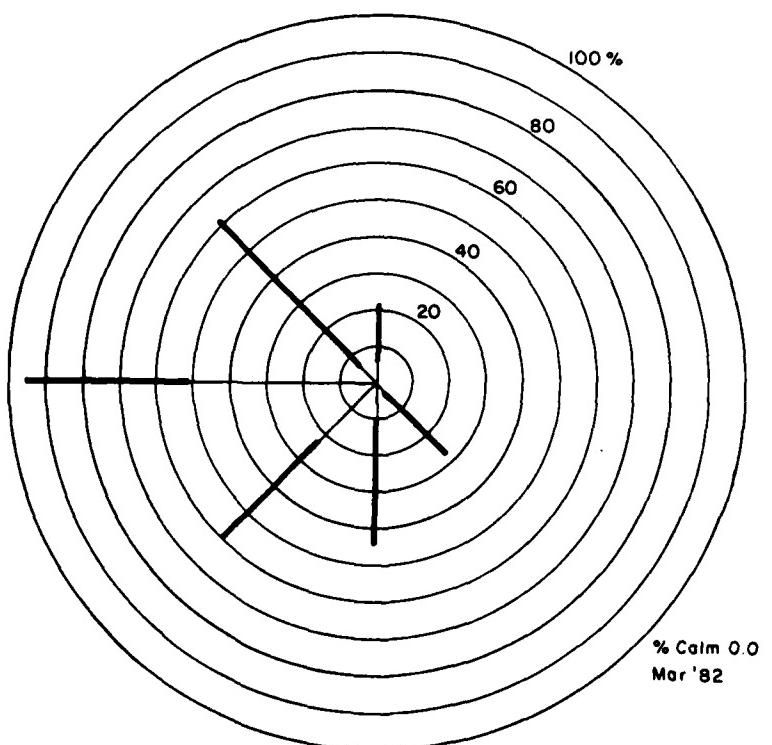
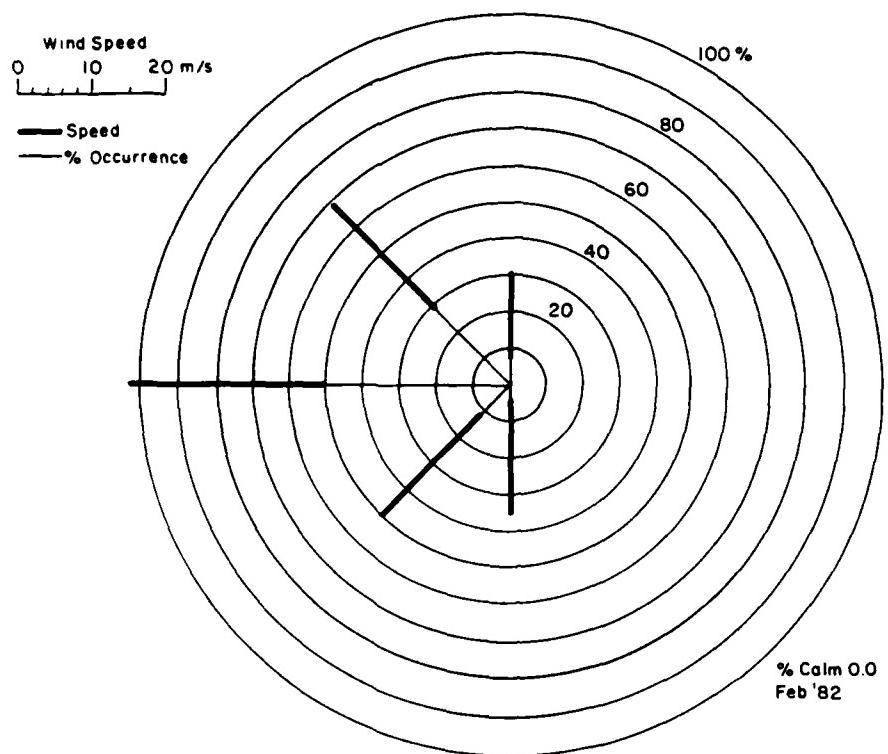
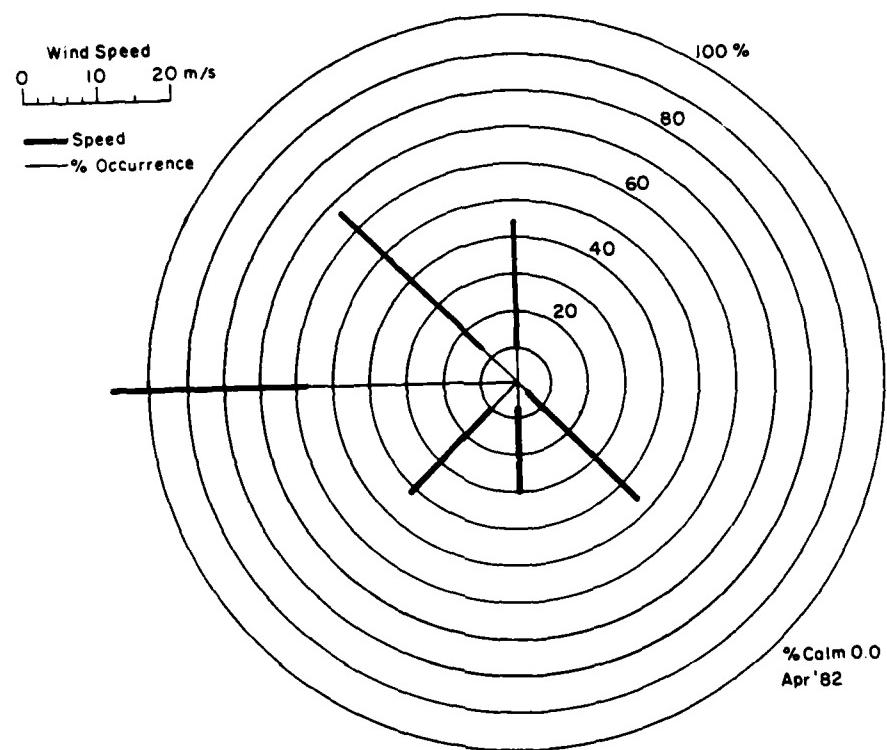
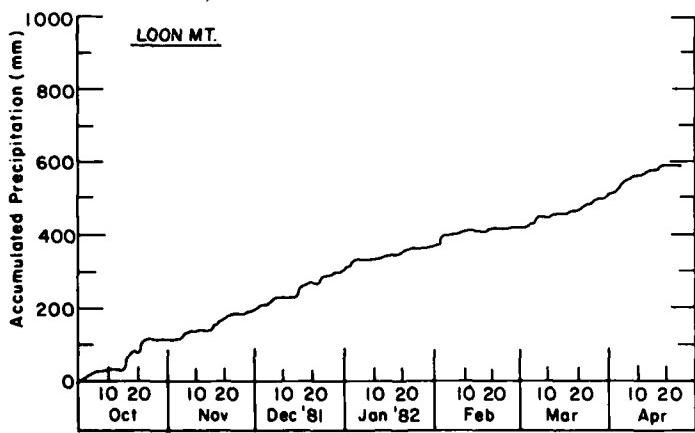
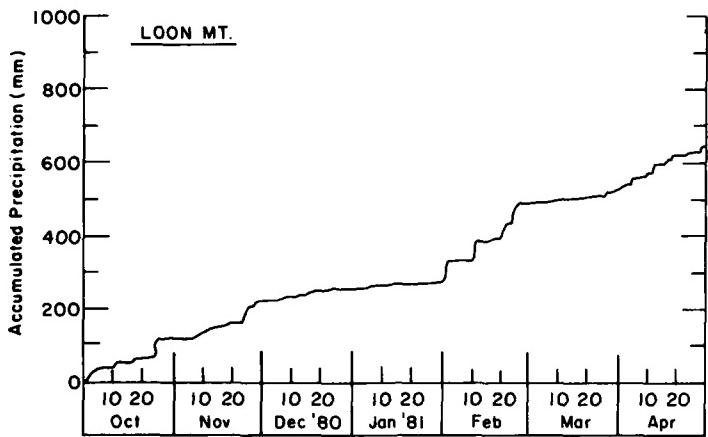
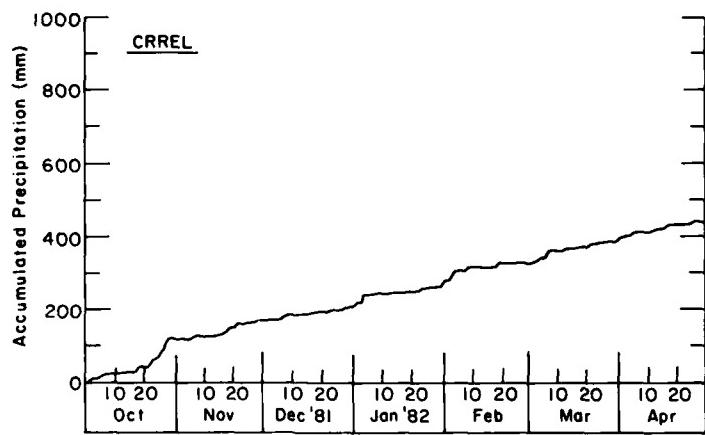
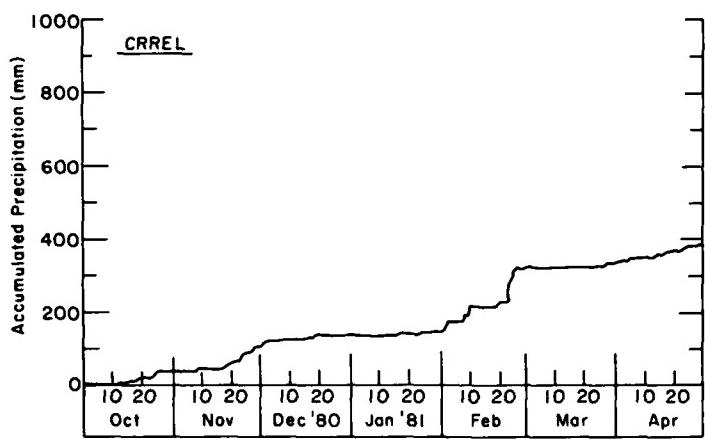


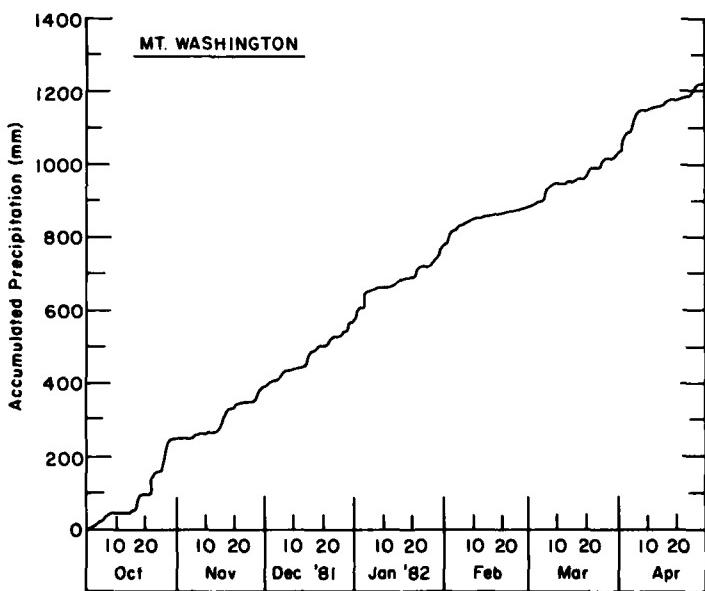
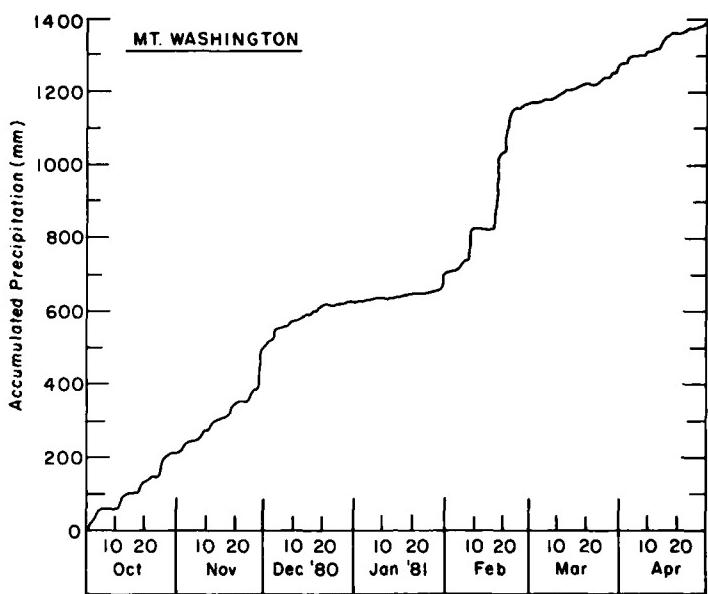
Figure B6 (cont'd).



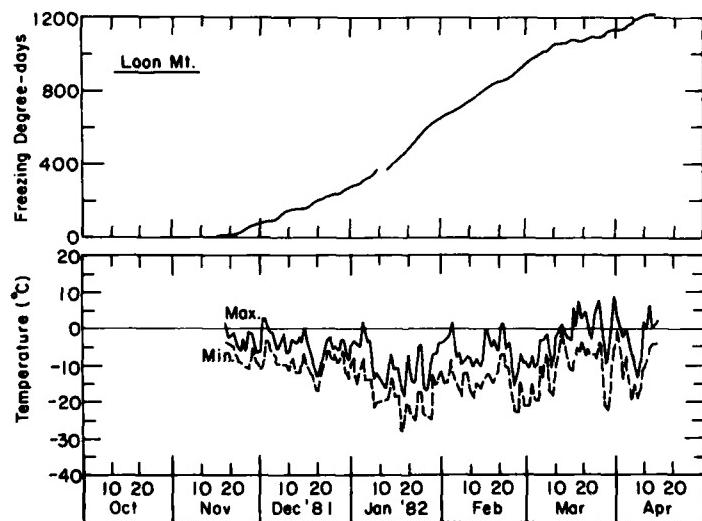
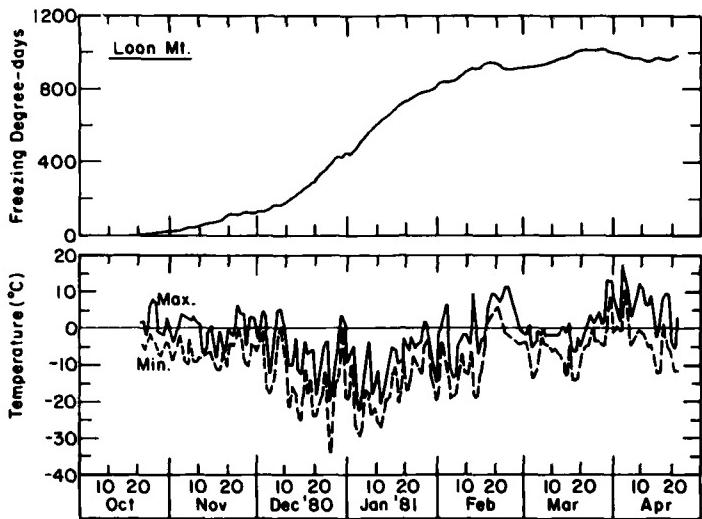
**APPENDIX C: ACCUMULATED PRECIPITATION AMOUNTS (WATER EQUIVALENT)**

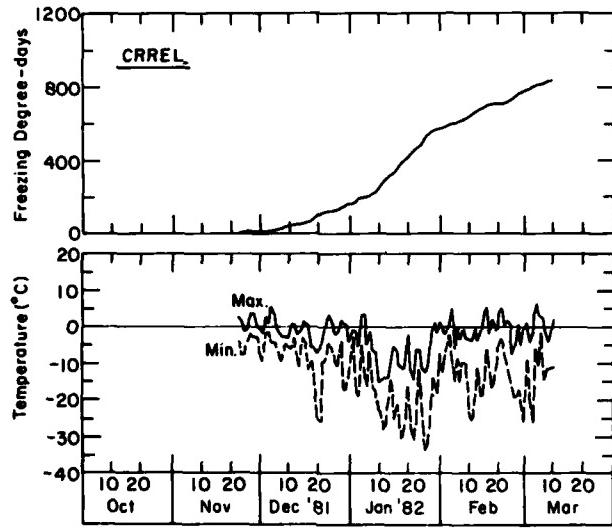
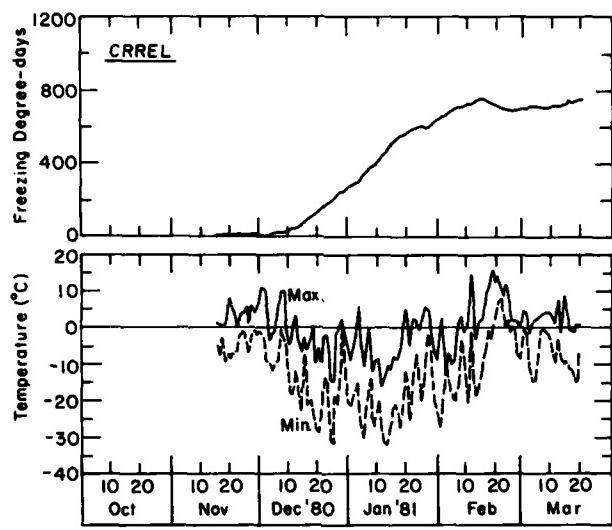


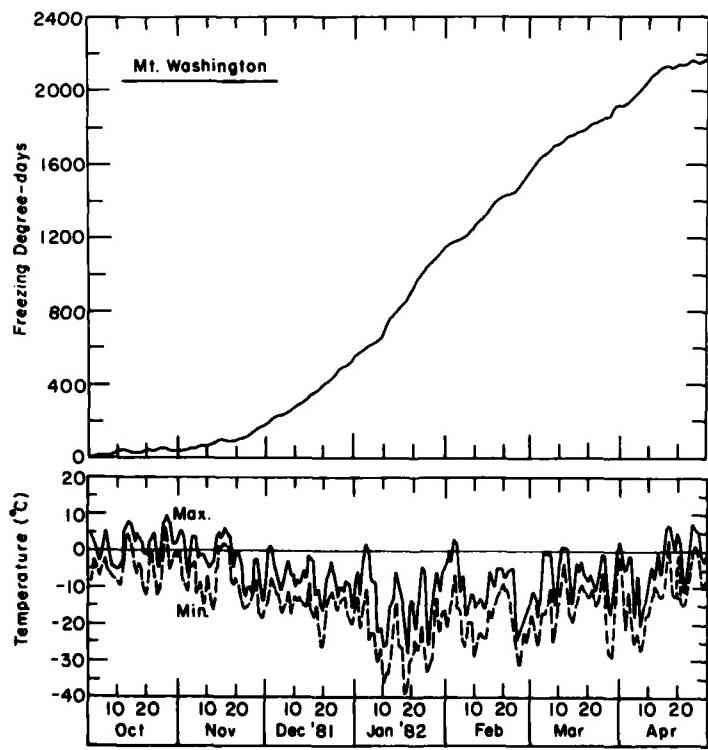
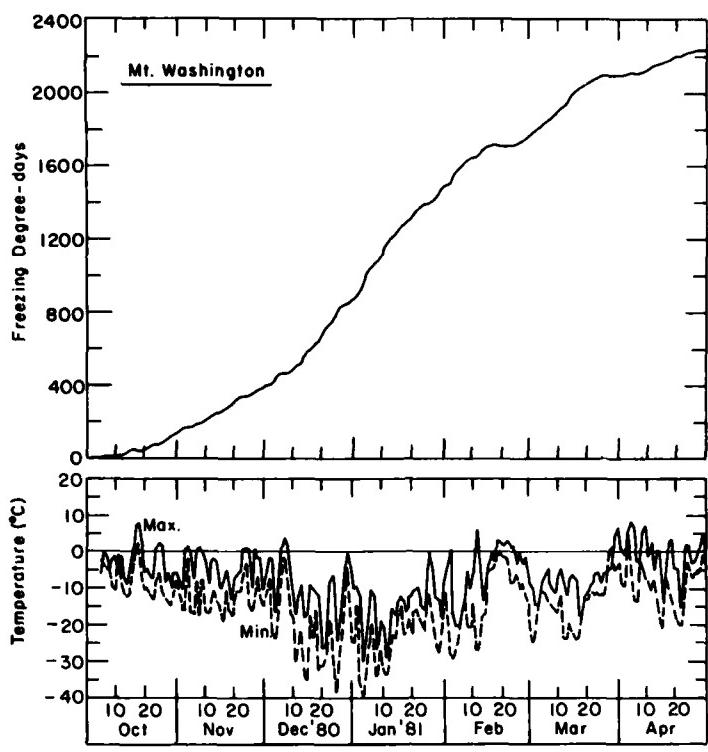




APPENDIX D: CUMULATIVE FREEZING-DEGREE-DAYS AND MAXIMUM  
AND MINIMUM AIR TEMPERATURES







**APPENDIX E: MOUNT WASHINGTON ICING EVENTS**

	1980 Date	Time (Hrs)				Time (Hrs)			
		Begin	End	Begin	End	Begin	End	Begin	End
Oct	1								
	2								
	3	1820	0850	1930	05	6	6	2	Nov
	4	Cont	0030	0850	1930	5	5	3	
	5	1120	2250	0520	Cont	7	7	4	
	6	(0230)				8	8	5	
	7	0210				9	9	6	
	8	Cont	1120			10	10	7	
	9	0640				11	11	8	
	10	Cont	0615			12	12	9	
	11	2100	2210			13	13	10	
	12	0230	Cont			14	14	11	
	13	Cont	Cont			15	15	12	
	14	Cont	Cont			16	16	13	
	15	Cont	0030			17	17	14	
	16	0515	1415	2015	Cont	18	18	15	
	17	Cont	0030			19	19	16	
	18					20	20	17	
	19	0100	Cont			21	21	18	
	20	Cont	Cont			22	22	19	
	21	Cont	Cont			23	23	20	
	22	Cont	Cont			24	24	21	
	23	1940				25	25	22	
	24					26	26	23	
	25	0855	2010			27	27	24	
	26	Cont	0130			28	28	25	
	27	Cont	Cont			29	29	26	
	28	Cont	Cont			30	30	27	
	29	Cont	Cont			31	31	28	
	30	Cont	0050						
	31	0450							

Cont - Continued

Date	Time (hrs)			Date	Loc 1			Date	Loc 2		
	Begin	End	Begin		Begin	End	End		Begin	End	End
1980 Dec 1	2250 Cont	0520 Cont	0520 Cont	1980 Dec 2	2140 Cont	0730 Cont	0950 Cont	1980 Dec 3	2140 Cont	0730 Cont	2015 Cont
2	0520 Cont	1315 Cont	1315 Cont	4	2320 Cont	0730 Cont	0950 Cont	5	2140 Cont	0730 Cont	2015 Cont
3	1315 Cont	1740 Cont	1740 Cont	5	0845 Cont	1715 Cont	1305 Cont	6	2250 Cont	1910 Cont	0705 Cont
4	1740 Cont	1230 Cont	1230 Cont	6	1715 Cont	1230 Cont	0640 Cont	7	2140 Cont	1910 Cont	1520 Cont
5	0845 Cont	0635 Cont	0635 Cont	7	2315 Cont	0730 Cont	0950 Cont	8	2140 Cont	0730 Cont	1640 Cont
6	1715 Cont	0635 Cont	0635 Cont	8	0845 Cont	0730 Cont	0950 Cont	9	2140 Cont	0730 Cont	1345 Cont
7	2315 Cont	0730 Cont	0730 Cont	9	1845 Cont	1315 Cont	1305 Cont	10	2140 Cont	0730 Cont	1530 Cont
8	0845 Cont	1715 Cont	1715 Cont	10	1845 Cont	1315 Cont	1305 Cont	11	2140 Cont	0730 Cont	0505 Cont
9	1845 Cont	1230 Cont	1230 Cont	11	0830 Cont	1315 Cont	1525 Cont	12	2140 Cont	0730 Cont	0705 Cont
10	1230 Cont	0635 Cont	0635 Cont	12	0635 Cont	0510 Cont	1525 Cont	13	2140 Cont	0730 Cont	0520 Cont
11	0635 Cont	0445 Cont	0445 Cont	13	0510 Cont	0445 Cont	0640 Cont	14	2140 Cont	0730 Cont	0940 Cont
12	0445 Cont	0210 Cont	0210 Cont	14	0510 Cont	0445 Cont	0640 Cont	15	2140 Cont	0730 Cont	1405 Cont
13	0210 Cont	0215 Cont	0215 Cont	15	0830 Cont	1930 Cont	2120 Cont	16	2140 Cont	0730 Cont	1405 Cont
14	0215 Cont	0750 Cont	0750 Cont	16	1930 Cont	0830 Cont	0950 Cont	17	2140 Cont	0730 Cont	1345 Cont
15	0750 Cont	0820 Cont	0820 Cont	17	0830 Cont	1930 Cont	1525 Cont	18	2140 Cont	0730 Cont	0455 Cont
16	0820 Cont	0445 Cont	0445 Cont	18	1930 Cont	0830 Cont	1525 Cont	19	2140 Cont	0730 Cont	1230 Cont
17	0445 Cont	0740 Cont	0740 Cont	19	0740 Cont	0810 Cont	1705 Cont	20	2140 Cont	0730 Cont	1010 Cont
18	0740 Cont	0740 Cont	0740 Cont	20	0740 Cont	0810 Cont	1705 Cont	21	2140 Cont	0730 Cont	1010 Cont
19	0740 Cont	0740 Cont	0740 Cont	21	0740 Cont	0810 Cont	1705 Cont	22	2140 Cont	0730 Cont	1010 Cont
20	0740 Cont	0740 Cont	0740 Cont	22	0740 Cont	0810 Cont	1705 Cont	23	2140 Cont	0730 Cont	1010 Cont
21	0740 Cont	0740 Cont	0740 Cont	23	0740 Cont	0810 Cont	1705 Cont	24	2140 Cont	0730 Cont	1010 Cont
22	0740 Cont	0740 Cont	0740 Cont	24	0740 Cont	0810 Cont	1705 Cont	25	2140 Cont	0730 Cont	1010 Cont
23	0740 Cont	0740 Cont	0740 Cont	25	0740 Cont	0810 Cont	1705 Cont	26	2140 Cont	0730 Cont	1010 Cont
24	0740 Cont	0740 Cont	0740 Cont	26	0740 Cont	0810 Cont	1705 Cont	27	2140 Cont	0730 Cont	1010 Cont
25	0740 Cont	0740 Cont	0740 Cont	27	0740 Cont	0810 Cont	1705 Cont	28	2140 Cont	0730 Cont	1010 Cont
26	0740 Cont	0740 Cont	0740 Cont	28	0740 Cont	0810 Cont	1705 Cont	29	2140 Cont	0730 Cont	1010 Cont
27	0740 Cont	0740 Cont	0740 Cont	29	0740 Cont	0810 Cont	1705 Cont	30	2140 Cont	0730 Cont	1010 Cont
28	0740 Cont	0740 Cont	0740 Cont	30	0740 Cont	0810 Cont	1705 Cont	31	2140 Cont	0730 Cont	1010 Cont

1981		Time (Hrs)				Time (Hrs)			
	Date	Begin	End	Begin	End	Begin	End	Begin	End
Feb	1	1845	Cont	1550	Cont				
	2	1415	Cont			Mar	1		
	3	Cont	Cont	1245	Cont	2	Cont	Cont	Cont
	4	Cont	0430	1905	Cont	3	Cont	0645	1720
	5	Cont	1640	1905	Cont	4	Cont	0050	2140
	6	Cont	0150	1220	Cont	5	Cont	Cont	Cont
	7	Cont	1250	1750	Cont	6	Cont	Cont	2250
	8	Cont	Cont			7	Cont		
	9	Cont	Cont			8	Cont		
	10	Cont	0655	1955	Cont	9	Cont	0005	Cont
	11	Cont	1110	2350	Cont	10	Cont	Cont	Cont
	12	Cont	1850			11	Cont	Cont	Cont
	13					12	Cont	Cont	Cont
	14	0715	1230	1315	1710	2220	14	Cont	Cont
	15					15	Cont	Cont	Cont
	16	2250	Cont	Cont	1050		16	Cont	1545
	17					17	Cont	Cont	1850
	18					18	Cont	Cont	Cont
	19	0000	0330			19	Cont	0215	0550
	20					20	Cont	Cont	Cont
	21	0510	1115			21	Cont	Cont	Cont
	22	2010	Cont	Cont	24	22	23	0050	1155
	23	Cont	Cont	Cont	25	24	25	0705	1415
	24	Cont	Cont	Cont	26	25	26	Cont	1735
	25	Cont	Cont	Cont	27	26	27	1335	1815
	26	Cont	Cont	Cont	28	27	28	0410	2215
	27	Cont	Cont	Cont	29	28	29		
	28	1250			30	29	30		
					31	30	31	0220	0940
								2315	Cont

1981		Time (Hrs)				1981				Time (Hrs)			
	Date	Begin	End	Begin	End	Begin	End	Oct	1	Begin	End	Begin	End
Apr	1	Cont	Cont	Cont	Cont	Cont	Cont	Oct	1	Cont	0220	0400	1430
	2	Cont	Cont	Cont	0410	Cont	Cont		2	Cont	0740	Cont	1630
	3	Cont	Cont	Cont	1005	Cont	Cont		3	Cont	Cont	1935	1950
	4	Cont	Cont	Cont	1005	Cont	Cont		4	Cont	Cont	Cont	2015
	5	2130	Cont	Cont	1005	Cont	Cont		5	Cont	1050	1250	Cont
	6	Cont	Cont	Cont	1005	Cont	Cont		6	Cont	1930	(1930)	
	7	Cont	Cont	Cont	1005	Cont	Cont		7	Cont	Cont	Cont	
	8	1940	Cont	Cont	0855	Cont	Cont		8	Cont	Cont	Cont	
	9	10	Cont	Cont	0620	Cont	Cont		9	Cont	0615	0615	2215
	11	11	Cont	Cont	0130	Cont	Cont		10	Cont	0945	1150	2250
	12	12	Cont	Cont	0130	Cont	Cont		11	Cont	1150		
	13	13	Cont	Cont	0130	Cont	Cont		12	Cont	12		
	14	14	0840	Cont	1840	Cont	1840		13	Cont	13		
	15	15	Cont	Cont	1315	Cont	1315		14	Cont	14		
	16	16	0220	Cont	1625	Cont	1625		15	Cont	1530	1530	Cont
	17	17	1250	Cont	1340	Cont	1340		16	Cont	0150	0150	
	18	18	1530	Cont	0430	Cont	0430		17	Cont	1215	1215	
	19	19	Cont	Cont	0430	Cont	0430		18	Cont	1730	1730	
	20	20	0550	Cont	0550	Cont	0550		19	Cont	Cont	Cont	
	21	21	Cont	Cont	0550	Cont	0550		20	Cont	1305	1305	
	22	22	Cont	Cont	0650	Cont	0650		21	Cont	0515	0515	
	23	23	2350	Cont	0645	Cont	0645		22	Cont	1730	1730	
	24	24	Cont	Cont	0155	Cont	0155		23	Cont	2050	2050	
	25	25	Cont	Cont	0155	Cont	0155		24	Cont	1850	1850	
	26	26	Cont	Cont	1715	Cont	1715		25	Cont	0750	0750	
	27	27	Cont	Cont	1430	Cont	1430		26	Cont	1850	1850	
	28	28	0230	Cont	0840	Cont	0840		27	Cont	0050	0050	
	29	29	0245	Cont	0540	Cont	0540		28	Cont	1420	1420	
	30	30	Cont	Cont	1130	Cont	1130		29	Cont	1920	1920	
									30	Cont	2240	2240	
									31	Cont	0050	0050	

1981		Time (Hrs)				1981				Time (Hrs)			
Date		Begin	End	Begin	End	Date		Begin	End	Begin	End		
Nov 1		1450	1550	1955	2205	Dec 1		1915	Cont	0810	1215		
2		1440	1550	1615	Cont	2		Cont	0430	0430	2150		
3		Cont	0830			3		Cont	0550	0130	Cont		
4		0550	1245			4		Cont	(0530)	0655	1015		
5						5		Cont	Cont	0945	Cont		
6		1655	Cont			6		Cont	Cont				
7		Cont	Cont			7		Cont	Cont				
8		0710	Cont			8		Cont	0240	1305	Cont		
9		0120	2030			9		Cont	Cont				
10		1925	Cont			10		Cont	Cont				
11		Cont	Cont			11		Cont	Cont				
12		0815	Cont			12		Cont	Cont				
13						13		Cont	2315	1605	1855		
14						14		Cont	1040	1620	Cont		
15						15		Cont	1020	2040			
16						16		Cont	Cont				
17						17		Cont	1710				
18		0710	Cont			18		Cont	0130				
19		2320	Cont			19		Cont	Cont				
20		0440	Cont			20		Cont	1720				
21		Cont	Cont			21		Cont	Cont				
22		Cont	Cont			22		Cont	Cont				
23		2140	Cont			23		Cont	Cont				
24		0130	0830			24		Cont	Cont				
25		0545	0635			25		Cont	Cont				
26						26		Cont	1330				
27						27		Cont	0850				
28		0040	Cont			28		Cont	0410	1940	Cont		
29		Cont	Cont			29		Cont	Cont	2145			
30		0750	Cont			30		Cont	1050	1550	Cont		
						31		Cont	0530	1230	Cont		

1982 Date	Time (Hrs)				Time (Hrs)			
	Begin	End	Begin	End	Begin	End	Begin	End
Jan 1	0650	Cont	1230	Cont	1730	Cont	1	Feb 1
2	Cont	1130	Cont	2155	Cont	3	2	2010
3	Cont	1735	Cont	0430	Cont	4	0110	1315
4	Cont	0430	Cont	1440	Cont	5	0340	1615
5	Cont	Cont	Cont	Cont	Cont	6	1310	Cont
6	Cont	Cont	Cont	Cont	Cont	7	Cont	Cont
7	Cont	Cont	Cont	Cont	Cont	8	0730	1745
8	Cont	Cont	Cont	Cont	Cont	9	Cont	1820
9	Cont	1140	Cont	1240	Cont	10	0415	2050
10	Cont	2145	Cont	2250	Cont	11	Cont	Cont
11	Cont	0950	Cont	1050	Cont	12	0755	1930
12	Cont	1350	Cont	Cont	Cont	13	1330	Cont
13	Cont	Cont	Cont	Cont	Cont	14	0620	Cont
14	Cont	Cont	Cont	Cont	Cont	15	1945	Cont
15	Cont	2230	Cont	1120	Cont	16	0540	1010
16	Cont	Cont	Cont	Cont	Cont	17	1320	1720
17	Cont	Cont	Cont	Cont	Cont	18	Cont	Cont
18	Cont	Cont	Cont	Cont	Cont	19	0730	Cont
19	Cont	0530	Cont	0110	2215	20	1720	Cont
20	Cont	0110	Cont	21	Cont	21	1310	Cont
21	Cont	21	Cont	22	Cont	22	2230	Cont
22	Cont	Cont	Cont	0805	Cont	23	1310	Cont
23	Cont	Cont	Cont	Cont	Cont	24	0420	0420
24	Cont	Cont	Cont	Cont	Cont	25	0110	1305
25	Cont	Cont	Cont	Cont	Cont	26	Cont	1635
26	Cont	Cont	Cont	0340	Cont	27	0955	1645
27	Cont	Cont	Cont	1320	Cont	28	1415	1650
28	Cont	Cont	Cont	Cont	Cont	29	0635	1320
29	Cont	Cont	Cont	0650	0815	30	0755	Cont
30	Cont	Cont	Cont	1020	Cont	31		

1982 <u>Date</u>	Time (Hrs)		<u>Begin</u>	<u>End</u>	<u>Begin</u>	<u>End</u>	<u>Begin</u>	<u>End</u>	<u>Begin</u>	<u>End</u>
	<u>Begin</u>	<u>End</u>								
Mar 1	1610	Cont								
2	Cont	Cont								
3	Cont	1655								
4	1610	Cont								
5	Cont	Cont								
6	Cont	0120	2050	Cont						
7	Cont	Cont	2210	Cont						
8	Cont	1040	Cont	2010	Cont					
9	10	(0120)	1910	Cont	10	9	Cont	0215	0150	1740
10	Cont	1735	Cont	1710	11	10	Cont	(0510)	Cont	Cont
11	Cont	0525	1020	12	11	11	Cont	0050	1750	Cont
12	1120	2155	Cont	13	12	12	Cont	Cont	0720	Cont
13	0240	Cont	0045	Cont	13	13	Cont	0145	1425	Cont
14	Cont	16	16	Cont	14	14	Cont	Cont	0110	2250
15	17	0130	1320	17	17	17	0420	Cont	0720	Cont
16	18	2215	Cont	18	18	18	Cont	Cont	0030	Cont
17	19	1215	2000	2150	19	19	0030	0050	0640	1330
18	Cont	0930	1815	2150	29	29	Cont	Cont	0935	1305
19	20	0705	Cont	0705	21	21	Cont	Cont	1610	1530
20	21	Cont	Cont	1440	22	22	Cont	Cont	Cont	Cont
21	22	1440	2130	1710	23	23	Cont	Cont	Cont	Cont
22	23	1610	0620	2205	24	24	Cont	Cont	Cont	Cont
23	24	0040	0120	0120	25	25	Cont	Cont	Cont	Cont
24	25	Cont	Cont	Cont	26	26	Cont	Cont	Cont	Cont
25	26	1130	0420	2230	27	27	Cont	Cont	Cont	Cont
26	27	0040	(0445)	2330	28	28	Cont	Cont	Cont	Cont
27	28	0510	1240	2215	29	29	Cont	Cont	Cont	Cont
28	29	30	31		30	30	Cont	Cont	Cont	Cont

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